RA-915

Mercury analyzers and monitors

List of scientific publications. 1990–2026

This document contains a bibliography of selected scientific articles, in which RA-915 mercury analyzers and monitors were used as measuring instruments.

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2026

Agarwal, R., & Aggarwal, S. G. **Mercury in ambient air: a review on sources, speciation, legislation and measurement methods**. Asian Journal of Atmospheric Environment, 20(1), 8, 2026. https://doi:10.1007/s44273-026-00087-2

Safdar, R. **Quotative assessment of environmental mercury in beauty salons in Twin cities. Lumex analyzer**. Sustainable Development Policy Institute (SDPI), an independent, non-profit research institute working on sustainable development.: July 2026. https://sdpi.org/assets/lib/uploads/Final%20Lumax%20Report%20CLEAN%20%20100826.pdf

Floreani, F., Vecchio, A., Guerra, M., Mariani, E., Mulas, G., Covelli, S., Spinelli, L., Virgili, G. **Gaseous mercury fluxes from soils and health risk assessment at a coastal legacy industrial site**. Environmental Pollution, 2026. https://doi:10.1016/j.envpol.2026.128400

Jakub, K., Jiřina, S., Lukáš, P., Jiřina, S., Luka, S., & Pavel, T. **Mercury (Hg) Speciation in the Soil–Plant System of Formerly Polluted Soils**. Applied Sciences, 2026, 16(11), 5405. https://doi:10.3390/app16115405

Sun, X., Li, H., Wu, C., Xiong, B., Qu, X., Song, X., ... & Ma, M. **Hormesis and chelation pathway shifts govern dose-segmented Hg0 detoxification in Spanish moss**. Environmental Chemistry and Ecotoxicology, 2026. https://doi:10.1016/j.enceco.2026.05.012

Fang, P., Deng, X., Zhan, Z., Wu, Q., Wang, Y., Chen, X., ... & Wang, S. **Heterogeneous Photooxidation of Atmospheric Mercury Enhanced by Mixtures of Metallic Oxides and Sodium Chloride.** Environmental Science & Technology, 2026, 60(27), 19424-19436. https://doi:10.1021/acs.est.6c01436

Kalinchuk, V. **Distribution, sources, and transport pathways of atmospheric gaseous elemental mercury: interhemispheric differences during a transatlantic cruise from the Baltic Sea to the Southern Ocean in 2019–2020**. Environmental Pollution, 2026, 400, 128287. https://doi:10.1016/j.envpol.2026.128287

Vaselli, O., Meloni, F., Cabassi, J., Nisi, B., Lazzaroni, M., Bianchi, F., & Rappuoli, D. **Geochemical Characterization of Environmental and Man-Made Matrices for Remediation Operations in the Former Hg Mining and Production Plants of Abbadia San Salvatore (Central Italy)**. Environments, 2026, 13, 220. https://Doi:10.3390/environments13040220

Bencardino, M., Tassone, A., Martino, M., D'Amore, F., Sprovieri, T., Ungaro, C., ... & Pirrone, N. **Atmospheric mercury monitoring data across Italy: a multi-year national dataset (2020-2023)**. Data in Brief, 2026, 65, 112622. https://doi:10.1016/j.dib.2026.112622

Ghiglione, J. F., Heimbürger-Boavida, L. E., Fourquez, M., Hough, I., Sonke, J. E., ter Halle, A., ... & Angot, H. **Tara Polaris expeditions: seasonal and long-term contaminant monitoring in the changing central Arctic**. 2026. hal-05466231. https://hal.science/hal-05466231v1

Myagkaya, I. N. **Representativeness of assessment methods for background concentrations of potentially toxic elements in soils and air within the gold-sulfide deposit area**. Environmental Monitoring and Assessment, 2026, 198(1), 1. https://doi:10.1007/s10661-025-14760-6

2025

N. Mashyanov, S. Sholupov, S. Pogarev, V. Ryzhov, V. Obolkin, T. Khodzher, A. Yasutake, A. Matsuyama, L. Martin and C. Labuschagne. **Background Air Monitoring: Mercury Emissions Sources Revealing**. In: Zhang, Z., et al. Dynamic Evolution of Atmospheric, Ecological, and Hydrological Systems in Circum-Mediterranean Regions. MedGU 2023. Advances in Science, Technology & Innovation. V.1. 273-278. Springer, Cham. 2025. https://doi:10.1007/978-3-031-86777-4_51

N.R. Mashyanov, A.S. Rukhlov, S.E. Sholupov, V.V. Ryzhov, A.D. Shashko, E. Perkins, and W. Barnes. **New methodology for air mercury surveys over mineralization**. Explore, 2025, 208. https://doi:10.70499/ZXZS843

Bencardino, M., Tassone, A., Martino, M., D'Amore, F., Sprovieri, T., Ungaro, C., ... & Pirrone, N. **Establishing a national network for atmospheric mercury monitoring: Preliminary spatial and temporal insights from Italy.** Atmospheric Environment, 2025, 361, 121477. https://doi:10.1016/j.atmosenv.2025.121477

Barquero, J.I., Peco, J., Villena, J., Campos, J.A., Amorós, J.A., Esbrí, J.M., García-Navarro, F.J., Moreno, M.M., Higueras, P. **Transference of potentially toxic elements from soils to plants in a derelict Pb-Zn mining area (San Quintín mine, South-Central Spain)**. Applied Geochemistry, 2025, 106637. https://doi:10.1016/j.apgeochem.2025.106637

Kalinchuk, V. **Sources, transport pathways, seasonal and diurnal variations of atmospheric gaseous elemental mercury on the Russian coast of the sea of Japan: Findings from 2021 to 2022 observations**. Science of The Total Environment, 2025, 1004, 180831. https://doi:10.1016/j.scitotenv.2025.180831

Lenzi, A., Paci, M., Bettini, A., Caprai, A., D'Ulivo, A., Onor, M., ... & Campanella, B. **Sampling and analysis of H2S and Hg from evaporative geothermal cooling towers: The Italian experience**. Geothermics, 2025, 129, 103291. https://doi:10.1016/j.geothermics.2025.103291

Lyu, R, Xue, L, Wu, X, Mu, Y, Cheng, J, Zhou, L, Wang, Y & Harrison, RM. **Mercury Pollution in a Coastal City of Northern China Driven by Temperature Re-Emission, Coal Combustion, and Port Activities**. Atmosphere, 2025, 16(10), 1121. https://doi:10.3390/atmos16101121

Zhang, Z., Wang, Z., Zong, J., Zhang, H., Hu, Y., Xiao, Y., ... & Li, Z. **Spatial and Temporal Changes and Influencing Factors of Mercury in Urban Agglomeration Land Patterns: A Case from Changchun Area, Old Industrial Base of Northeast China**. Land, 2025, 14(3), 652. https://doi:10.3390/land14030652

Guan, H., Zhong, L., & Pan, W. P. **Evaluation of measurement methods for the finest particle size distribution of condensable particulate matter in surface aggregation and spatial suspension state**. Separation and Purification Technology, 2025, 132673. https://doi:10.1016/j.seppur.2025.132673

Meloni, F.; Calabrese, S.; Vaselli, O.; Capecchiacci, F.; Ciani, F.; Brusca, L.; Bellomo, S.; D'Alessandro, W.; …. & Cabassi, J. **Active Moss Biomonitoring of Mercury in the Mine-Polluted Area of Abbadia San Salvatore (Mt. Amiata, Central Italy)**. Toxics, 2025, 13, 2. https://doi:10.3390/toxics13010002

2024

Bauštein, M., Száková, J., Stefanović, L., Najmanová, J., Sysalová, J., & Tlustoš, P. **Assessment of Mercury Uptake by Plants in Former Cinnabar Mining Areas**. Minerals, 2024, 14(12), 1211. https://doi:10.3390/min14121211

Bencardino, M., D'Amore, F., Angot, H., Angiuli, L., Bertrand, Y., Cairns, W., ... & Pirrone, N. **Patterns and trends of atmospheric mercury in the GMOS network: Insights based on a decade of**

measurements. Environmental Pollution, 2024, 363(2), 125104. https://doi:10.1016/j.envpol.2024.125104

Lopatnikov, E.A., & Ivanov, M.V. **Application of concentration-weighted trajectory approach to identify sources with high anthropogenic mercury emissions in the East Asia**. Marine Pollution Bulletin, 2024, 209, 117120. https://doi:10.1016/j.marpolbul.2024.117120

Charkina, A.N., Dudareva, O.V., & Ulyantsevb, A.S**. Expeditionary Studies of the Seas of Northeast Eurasia during Cruise 69 of the R/V Akademik Oparin**. Oceanology, 2024, 64(5). https://doi:10.1134/S0001437024700450

Malasani, C. R., Swain, B., Patel, A., Pulipatti, Y., Anchan, N. L., Sharma, A., ... & Gunthe, S. S. **Modeling of mercury deposition in India: evaluating emission inventories and anthropogenic impacts**. Environmental Science: Processes & Impacts, 2024, 26(11), 1999-2009. https://doi:10.1039/D4EM00324A

Volynkin, S.S., Podolinnaia, V.A., Shuvaeva, O.V., Yurkevich, N.V., Bortnikova, S.B., & Romanova, T.E. **Studying the process of metals and non-metals transfer in a low-temperature gas flow over sulfide tailings materials**. Chemistry and Ecology, 2024б 1-11. https://doi:10.1080/02757540.2024.2405718

Edwards, B. A., Pfeffer, M. A., Ilyinskaya, E., Kleine-Marshall, B. I., Mandon, C. L., Cotterill, A., ... & Wang, F. **Exceptionally low mercury concentrations and fluxes from the 2021 and 2022 eruptions of Fagradalsfjall volcano, Iceland**. Science of the Total Environment, 2024, 917, 170457. https://doi.org/10.1016/j.scitotenv.2024.170457

Ciani, F., Lattanzi, P., Benvenuti, M., Costagliola, P., Donatelli, A., Gianni, R., ... & Rimondi, V. **Indoor mercury pollution in the herbaria: Risk assessment for workers' health and potential solutions. The studies at the Florence (Italy) herbaria**. In Environmental Geochemistry. Elsevier, 2024, 723-744. https://doi.org/10.1016/B978-0-443-13801-0.00019-0

Rodríguez, R., Garcia-Gonzalez, H., Hernández, Z., & Sanmiquel, L. **Tackling Arsenic and Mercury Contamination: Implications for Sustainable Mining and Occupational Health Risks**. Sustainability, 2024, 16(10), 4027. https://doi.org/10.3390/su16104027

Gačnik J., Živković, I., Kotnik J., Božič D., Tassone A., Naccarato A., ... & Horvat M. **Comparison of active measurements, lichen biomonitoring, and passive sampling for atmospheric mercury monitoring**. Environmental Science and Pollution Research, 2024, 1-11. https://doi.org/10.1007/s11356-024-33582-6

Modise, I.M., Panichev, N., & Mandiwana, K.L. **The application of aluminium powder as an accumulation medium of mercury from air.** Atmosphere, 2024, 15(3), 368. https://doi.org/10.3390/atmos15030368

Nannoni, A., Annese, V., Fornasaro, S., Morelli, G., Ciani, F., Monnanni, A., Lattanzi, P., Rimondi, V., Costagliola, P., and Fagotti, C. **Particle-bound mercury transport across a mine-polluted fluvial system: towards a simple method to measure Hg flux from the Monte Amiata Mining District (Southern Tuscany, Italy).** EGU General Assembly, 2024, EGU24-16063. https://doi.org/10.5194/egusphere-egu24-16063

Barbara, N., Meloni, F., Cabassi, J., and Vaselli, O. **Mercury contamination in a former mining plant of NW Tuscany (central Italy).** EGU General Assembly, 2024, EGU24-15864. https://doi.org/10.5194/egusphere-egu24-15864

Cabassi, J., Lazzaroni, M., Giannini, L., Mariottini, D., Nisi, B., Meloni, F., Rappuoli, D., and Vaselli, O. **Investigating the 3D distribution of GEM (Gaseous Elemental Mercury) in the lower atmosphere via a UAV (Unmanned Aerial Vehicle) - Lumex® assemblage.** EGU General Assembly, 2024, EGU24-10879. https://doi.org/10.5194/egusphere-egu24-10879

Talovskaya, A.V., Adil'bayeva, T.E., & Yazikov, E.G. **Monitoring for elemental composition of particulate matter deposited in snow cover around coal-fired thermal power plant (Karaganda, Central Kazakhstan).** GEOGRAPHY, ENVIRONMENT, SUSTAINABILITY, 2024, 16(4), 180-192. https://doi.org/10.24057/2071-9388-2023-2829

Andron, T.D., Corns, W.T., Živković, I., Ali, S.W., Vijayakumaran Nair, S., Horvat, M. **A traceable and continuous flow calibration method for gaseous elemental mercury at low ambient concentrations.** Atmos. Meas. Tech., 2024, 17, 1217–1228. https://doi.org/10.5194/amt-17-1217-2024

2023

Ciani, F., Fornasaro, S., Benesperi, R., Bianchi, E., Cabassi, J., Di Nuzzo, L., ... & Rimondi, V. **Mercury accumulation efficiency of different biomonitors in indoor environments: The case study of the Central Italian Herbarium (Florence, Italy).** Environmental Science and Pollution Research, 2023, 1-13. https://doi.org/10.1007/s11356-023-31105-3

Rodríguez, R.; Hernández, Z.; Fernández, B.; Bascompta, M. **A Novel Solution to Avoid Mercury Emissions Produced by Highly Contaminated Demolition Debris in Mining Site.** Environments, 2023, 10(187). https://doi.org/10.3390/environments10110187

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana.** Environ Geochem Health, 2023, 45, 3555–3565. https://doi.org/10.1007/s10653-022-01441-3

Barago, N., Mastroianni, C., Pavoni, E., Floreani, F., Parisi, F., Lenaz, D., & Covelli, S. **Environmental impact of potentially toxic elements on soils, sediments, waters, and air nearby an abandoned Hg-rich fahlore mine (Mt. Avanza, Carnic Alps, NE Italy).** Environmental Science and Pollution Research, 2023, 1-22. https://doi.org/10.1016/j.envpol.2022.120921

Floreani, F.; Pavoni, E.; Gosar, M.; Covelli, S. **Evasion of Gaseous Elemental Mercury from Forest and Urban Soils Contaminated by Historical and Modern Ore Roasting Processes (Idrija, Slovenia).** Atmosphere 2023, 14, 1036. https://doi.org/10.3390/atmos14061036

Floreani, F., Barago, N., Klun, K., Faganeli, J., & Covelli, S. **Dissolved gaseous mercury production and sea-air gaseous exchange in impacted coastal environments of the northern Adriatic Sea.** Environmental Pollution, 2023, 332, 121926. https://doi.org/10.1016/j.envpol.2023.121926

Jin, X., Yan, J., Ali, M. U., Li, Q., & Li, P. **Mercury Biogeochemical Cycle in Yanwuping Hg Mine and Source Apportionment by Hg Isotopes.** Toxics, 2023, 11(5), 456. https://doi.org/10.3390/toxics11050456

Sun, R., Cao, F., Dai, S., Shan, B., Qi, C., Xu, Z., ... & Chen, J. **Atmospheric Mercury Isotope Shifts in Response to Mercury Emissions from Underground Coal Fires.** Environmental Science & Technology, 2023. https://doi.org/10.1021/acs.est.2c08637

Rodríguez, R., Garcia-Gonzalez, H., Pastrana, Á., & Hernández, Z. **Health and Safety Protocol for the Management of Building Demolition Waste with High Mercury Contamination.** Buildings, 2023, 13(5), 1310. https://doi.org/10.3390/buildings13051310

Rodríguez R, Fernández B, Malagón B, Garcia-Ordiales E. **Chemical-Physical Model of Gaseous Mercury Emissions from the Demolition Waste of an Abandoned Mercury Metallurgical Plant.** Applied Sciences, 2023, 13(5):3149. https://doi.org/10.3390/app13053149

Sun, Y.; Zhang, Z.; Zhang, G.; Zong, J.; Zhang, H.; Deng, Y.; Yang, K.; Wang, Z.; Cui, D.; Yang, C. **Characteristics of Mercury Fluxes between Soil and Air in the Farming-Pastoral Ecotone of Songnen Grassland.** Sustainability, 2023, 15, 5416. https://doi.org/10.3390/su15065416

Kalinchuk, V.V. **Gaseous elemental mercury and its evasion fluxes in the marine boundary layer of the marginal seas of the northwestern Pacific: Results from two cruises in September–December 2019.** Science of The Total Environment, 2023, 858, 159711. https://doi.org/10.1016/j.scitotenv.2022.159711

Floreani, F., Zappella, V., Faganeli, J., & Covelli, S. **Gaseous mercury evasion from bare and grass-covered soils contaminated by mining and ore roasting (Isonzo River alluvial plain, Northeastern Italy).** Environmental Pollution, 2023, 318, 120921. https://doi.org/10.1016/j.envpol.2022.120921

2022

Feng, Z., Xiao, T., Xu, Q., Zhang, G., & Wang, D. **Gaseous elemental mercury (GEM) exchange flux from soil-vegetation to atmosphere at a meadow steppe.** Biogeochemistry, 2022, 1-18. https://doi.org/10.1007/s10533-022-01004-9

Kotnik, J., Žagar, D., Novak, G., Ličer, M., & Horvat, M. **Dissolved Gaseous Mercury (DGM) in the Gulf of Trieste, Northern Adriatic Sea.** Journal of Marine Science and Engineering, 2022, 10(5), 587. https://doi.org/10.3390/jmse10050587

Floreani, F., Acquavita, A., Barago, N., Klun, K., Faganeli, J., & Covelli, S. **Gaseous Mercury Exchange from Water–Air Interface in Differently Impacted Freshwater Environments.** International Journal of Environmental Research and Public Health, 2022, 19(13), 8149. https://doi.org/10.3390/ijerph19138149

Wang, J., Yang, Z., Mei, J., Wang, C., Hong, Q., & Yang, S. **Comparison of pyrite-phase transition metal sulfides for capturing leaked high concentrations of gaseous elemental mercury in indoor air: Mechanism and adsorption/desorption kinetics.** Journal of Colloid and Interface Science, 2022, 622, 431-442. https://doi.org/10.1016/j.jcis.2022.04.144

Zhou, X., & Zhang, G. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Regions in a China's Typical Agricultural County: Dehui.** Research Square, 2022. https://doi.org/10.21203/rs.3.rs-1473819/v1

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana.** Environ Geochem Health, 2022, 1-11. https://doi.org/10.1007/s10653-022-01441-3

Floreani, F.; Acquavita, A.; Barago, N.; Klun, K.; Faganeli, J.; Covelli, S. **Gaseous Mercury Exchange from Water–Air Interface in Differently Impacted Freshwater Environments.** Int. J. Environ. Res. Public Health, 2022, 19, 8149. https://doi.org/10.3390/ijerph19138149

Nannoni, A., Meloni, F., Benvenuti, M., Cabassi, J., Ciani, F., Costagliola, P., ... & Vaselli, O. **Environmental impact of past Hg mining activities in the Monte Amiata district, Italy: A summary of recent studies.** AIMS Geosciences, 2022, 8(4), 525-551. https://doi.org/10.3934/geosci.2022029

Kalinchuk, V.V. **Gaseous elemental mercury and its evasion fluxes in the marine boundary layer of the marginal seas of the northwestern Pacific: Results from two cruises in September–December 2019.** Science of The Total Environment, 2022, 159711. https://doi.org/10.1016/j.scitotenv.2022.159711

Xiao, Y.; Zhang, G.; Guo, J.; Zhang, Z.; Wang, H.; Wang, Y.; Wang, Z.; Yuan, H.; Cui, D. **Pollution Characteristics and Risk Assessments of Mercury in Jiutai, a County Region Thriving on Coal Mining in Northeastern China.** Sustainability 2022, 14, 10366. https://doi.org/10.3390/su141610366

Rodríguez, R., Garcia-Gonzalez, H., & García-Ordiales, E. (2022). **Empirical Model of Gaseous Mercury Emissions for the Analysis of Working Conditions in Outdoor Highly Contaminated Sites.** Sustainability, 2022, 14(21), 13951. https://doi.org/10.3390/su142113951

Garcia Gonzalez, H., García-Ordiales, E., & Diez, R.R. **Analysis of the airborne mercury and particulate arsenic levels close to an abandoned waste dump and buildings of a mercury mine and the potential risk of atmospheric pollution.** SN Applied Sciences, 2022, 4(3), 1-10. https://doi.org/10.1007/s42452-022-04964-7

Chen, G.; Sun, Y.; Zhang, Q.; Duan, Z.; Svanberg, S. **Atmospheric Mercury Concentrations in Guangzhou City, Measured by Spectroscopic Techniques.** Atmosphere, 2022, 13, 1650. https://doi.org/10.3390/atmos13101650

Sholupov S.E., Ryzhov V.V., Pogarev S.E., Mashyanov N.R. **Automatic monitors for direct continuous mercury measurement in ambient air, hydrocarbon, and industrial gases.** Limnology and Freshwater Biology, 2022 (3), 1349-1351. https://doi.org/10.31951/2658-3518-2022-A-3-1349

Rukhlov, A.S., Mashyanov, N.R., Pitirimov, P.V., Hickin, A.S., Golovetskyy, M., and Coats, B., 2022. **Gaseous elemental mercury (GEM) response from sediment-covered, volcanogenic massive sulphide mineralization on southern Vancouver Island**. British Columbia Ministry of Energy, Mines and Low Carbon Innovation, British Columbia Geological Survey Paper 2022-01, 123-135

Rukhlov, A.S., Mashyanov, N.R., Pitirimov, P.V., Hickin, A.S., Golovetskyy, M., and Coats, B. **Real-time air mercury response from sediment-covered, volcanogenic massive sulphide mineralization on southern Vancouver Island, British Columbia, Canada**., EGU General Assembly 2022, Vienna, Austria, EGU22-6902. https://doi.org/10.5194/egusphere-egu22-6902

Martino, M., Tassone, A., Angiuli, L. et al. **First atmospheric mercury measurements at a coastal site in the Apulia region: seasonal variability and source analysis**. Environ Sci Pollut Res, 2022. https://doi.org/10.1007/s11356-022-20505-6

V. Kalinchuk, A. Yatsuk, L.B. Marchesini, E. Lopatnikov, O. Nesterova, R. Valentini, K. Aksentov. **The first simultaneous and continuous underway measurements of atmospheric gaseous elemental mercury, carbon dioxide and methane in the marine boundary layer: Results of cruise study in the Sea of Japan in May 2018**. Atmospheric Pollution Research, 2022, 13(7). https://doi.10.1016/j.apr.2022.101458

Garcia Gonzalez, H., García-Ordiales, E., & Diez, R. R. **Analysis of the airborne mercury and particulate arsenic levels close to an abandoned waste dump and buildings of a mercury mine and the potential risk of atmospheric pollution**. SN Applied Sciences, 2022, 4(3), 1-10. https://doi.org/10.1007/s42452-022-04964-7

B. Muresan, Y. Liu, Q. Le Gac, L. Lumière, V. Cerezo. **In-line measurement of exhaust mercury emissions by an instrumented light-duty vehicle using both on-road and test track experiments**. Science of The Total Environment, 2022, 805, 150265. https://doi.org/10.1016/j.scitotenv.2021.150265

Silvia Fornasaro, Guia Morelli, Valentina Rimondi, Cesare Fagotti, Rossella Friani, Pierfranco Lattanzi, Pilario Costagliola. **Mercury distribution around the Siele Hg mine (Mt. Amiata district, Italy) twenty years after reclamation: Spatial and temporal variability in soil, stream sediments, and air**. J. Geochemical Exploration, 2022, 232, 106886. https://doi.org/10.1016/j.gexplo.2021.106886

Qian, Y., Liang, Y., Cao, Q., Wang, Z., Shi, Y., & Liang, H. **Concentration and speciation of mercury in atmospheric particulates in the Wuda coal fire area, Inner Mongolia, China**. Environmental Science and Pollution Research, 2022, 29(3), 3879-3887. https://doi.org/ 10.21203/rs.3.rs-573885/v1

M. Stelling, A. Biezeman, E. Korthagen, G. Verstappen. **On-site detection of mercury**. Netherlands Forensic Institute, Technical Report ISFP-AG-OC-ENV-869173, 2022.

A. Loria, Y.R. Ramos-Arroyo, D. Rocha, et al. **Widespread elevated concentrations of gaseous elemental mercury in Guanajuato, Mexico, centuries after historical silver refining by mercury**

amalgamation. Science of the Total Environment, 2022. https://doi.org/10.1016/j.scitotenv.2022.157093

2021

Mashyanov, N.; Obolkin, V.; Pogarev, S.; Ryzhov, V.; Sholupov, S.; Potemkin, V.; Molozhnikova, E.; Khodzher, T. **Air Mercury Monitoring at the Baikal Area**. Atmosphere, 2021, 12, 807. https://doi.org/10.3390/atmos12070807

Rukhlov, A.S., Ootes, L., Hickin, A.S., and Mashyanov, N.R. **Near-surface mercury vapour haloes in air above ore deposits and faults on Vancouver Island: Insights into buried materials in real-time?** In: Geological Fieldwork 2020, British Columbia. Ministry of Energy, Mines and Low Carbon Innovation, British Columbia Geological Survey Paper 2021-01, 2021, 113-143

Ciani, F., Rimondi, V. & Costagliola, P. **Atmospheric mercury pollution: the current methodological framework outlined by environmental legislation**. Air Qual Atmos Health, 2021. https://doi.org/10.1007/s11869-021-01044-4

Marshall, B.G.; Camacho, A.A.; Jimenez, G.; Veiga, M.M. **Mercury Challenges in Mexico: Regulatory, Trade and Environmental Impacts**. Atmosphere, 2021, 12(57). https://doi.org/10.3390/atmos12010057

Fantozzi, L.; Guerrieri, N.; Manca, G.; Orrù, A.; Marziali, L. **An Integrated Investigation of Atmospheric Gaseous Elemental Mercury Transport and Dispersion Around a Chlor-Alkali Plant in the Ossola Valley (Italian Central Alps)**. Toxics, 2021, 9, 172. https://doi.org/10.3390/toxics9070172

Guney, M.; Kumisbek, A.; Akimzhanova, Z.; Kismelyeva, S.; Beisova, K.; Zhakiyenova, A.; Inglezakis, V.; Karaca, F. **Environmental Partitioning, Spatial Distribution, and Transport of Atmospheric Mercury (Hg) Originating from a Site of Former Chlor-Alkali Plant**. Atmosphere 2021, 12, 275. https://doi.org/10.3390/atmos12020275

Morton Bermea, O., Castro-Larragoitia, J., Arellano Álvarez, Á.A. et al. **Mercury in Blood of Children Exposed to Historical Residues from Metallurgical Activity**. Exposure and Health, 2021. https://doi.org/10.1007/s12403-021-00382-z

Morton-Bermea, O., Schiavo, B., Salgado-Martínez, E. et al. **Gaseous Elemental Mercury (GEM) in the Mexico City Metropolitan Area.** Bull. Environ. Contam. Toxicol., 2021). https://doi.org/10.1007/s00128-021-03293-6

J. Cabassi, S. Venturi, F. Di Bennardo, B. Nisi, F. Tassi, F. Magi, A. Ricci, G. Picchi, O. Vaselli. **Flux measurements of gaseous elemental mercury (GEM) from the geothermal area of "Le Biancane" natural park (Monterotondo Marittimo, Grosseto, Italy): biogeochemical processes controlling GEM emission**. J. Geochem. Exploration, 2021, 106824. https://doi.org/10.1016/j.gexplo.2021.106824

Li, Z., Chen, X., Liu, W. et al. **Soil and ambient air mercury as an indicator of coal-fired power plant emissions: a case study in North China**. Environ Sci Pollut Res, 2021, 28, 33146–33157. https://doi.org/10.1007/s11356-021-12842-9

Zhaojun Wang, Lei Wang, Tingting Xiao, Tianle Yu, Xu Li, Zhanhui Tang, Gang Zhang. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Urban Regions in a Typical Chinese Industrial City: Changchun**. Polish J. Environ. Stud., 2021, 30(4), 3829-3841. https://doi.org/10.15244/pjoes/131051

Jiang Liu, Bo Meng, Alexandre.J. Poulain, Qiyi Meng, Xinbin Feng. **Stable isotope tracers identify sources and transformations of mercury in rice (Oryza sativa L.) growing in a mercury mining area**. Fundamental Research, 2021, 1(3), 259-268. https://doi.org/10.1016/j.fmre.2021.04.003

V.V. Kalinchuk, E.A. Lopatnikov, A.S. Astakhov, M.V. Ivanov, L. Hu. **Distribution of atmospheric gaseous elemental mercury (Hg(0)) from the Sea of Japan to the Arctic, and Hg(0) evasion fluxes in the Eastern Arctic Seas: Results from a joint Russian-Chinese cruise in fall 2018**. STOTEN, 2021 (in print). https://doi.org/10.1016/j.scitotenv.2020.142003

Osorio-Martinez J, Silva LFO, Flores EMM, Nascimento MS, Picoloto RS, Olivero-Verbel J. **Environmental and human health risks associated with exposure to hazardous elements present in urban dust from Barranquilla, Colombian Caribbean**. J Environ Qual., 2021, 50(2), 350-363. https://doi.org/10.1002/jeq2.20200

Viso, S.; Rivera, S.; Martinez-Coronado, A.; Esbrí, J.M.; Moreno, M.M.; Higueras, P. **Biomonitoring of Hg0, Hg2+ and Particulate Hg in a Mining Context Using Tree Barks**. Int. J. Environ. Res. Public Health, 2021, 18, 5191. https://doi.org/10.3390/ijerph18105191

J. Cabassi, M. Lazzaroni, L. Giannini, D. Mariottini, B. Nisi, D. Rappuolid, O. Vaselli. **Continuous and near real-time measurements of gaseous elemental mercury (GEM) from an Unmanned Aerial Vehicle: A new approach to investigate the 3D distribution of GEM in the lower atmosphere**. Chemosphere, 2021, 288(2), 132547. https://doi.org/10.1016/j.chemosphere.2021.132547

Jicheng Xia, Jianxu Wang, Leiming Zhang, Xun Wang, Wei Yuan, Christopher W.N. Anderson, Chaoyue Chen, Tao Peng, Xinbin Feng. **Significant mercury efflux from a Karst region in Southwest China - Results from mass balance studies in two catchments**. Science of The Total Environment, 2021, 769, https://doi.org/10.1016/j.scitotenv.2020.144892

Zhang, G.; Zhou, X.; Li, X.; Wang, L.; Li, X.; Luo, Z.; Zhang, Y.; Yang, Z.; Hu, R.; Tang, Z.; et al. **Gaseous Elemental Mercury Exchange Fluxes over Air-Soil Interfaces in the Degraded Grasslands of Northeastern China**. Biology, 2021, 10, 917. https://doi.org/10.3390/biology10090917

Yahui Qian, Yanci Liang, Qingyi Cao, Zhe Wang, Yunyun Shi, Handong Liang. **Concentration and speciation of mercury in atmospheric particulates in the Wuda coal fire area, Inner Mongolia, China**. Environ Sci Pollut Res, 2021. https://doi.org/10.1007/s11356-021-15805-2

Acquavita, A., Brandolin, D., Cattaruzza, C. et al. **Mercury distribution and speciation in historically contaminated soils of the Isonzo River Plain (NE Italy)**. J Soils Sediments, 2021. https://doi.org/10.1007/s11368-021-03038-2

Wang Z, Zhang Y, Wang L, Li X, Zhou X, Li X, Yan M, Lu Q, Tang Z, Zhang G, Wang D. **Characteristics and Risk Assessments of Mercury Pollution Levels at Domestic Garbage Collection Points Distributed within the Main Urban Areas of Changchun City**. Toxics, 2021; 9(11), 309. https://doi.org/10.3390/toxics9110309

Chunjie Wang, Zhangwei Wang, Yu Gao, Xiaoshan Zhang. **Planular-vertical distribution and pollution characteristics of cropland soil Hg and the estimated soil–air exchange fluxes of gaseous Hg over croplands in northern China**. Environmental Research, 2021, 195, 110810. https://doi.org/10.1016/j.envres.2021.110810

Snow, M. A., Darko, G., Gyamfi, O., Ansah, E., Breivik, K., Hoang, C., ... & Wania. F. **Characterization of inhalation exposure to gaseous elemental mercury during artisanal gold mining and e-waste recycling through combined stationary and personal passive sampling**. Environmental Science: Processes & Impacts, 2021, 23(4), 569-579. https://doi.org/10.1039/D0EM00494D

Duan Lei, Sun Xiaohui, Luo Yao, Du Baoyu, Wang Qiong, Liu Kaiyun, Zhang Jiawei, Wu Qingru, Wang Shuxiao. **Soil-atmosphere exchange of gaseous elemental mercury in three subtropical forests with different substrate Hg concentrations**. Atmospheric Environment, 2021, 244, 117869. https://doi.org/10.1016/j.atmosenv.2020.117869

Wang Z, Li X, Zhang G, Wang L, Qi W, Feng Z, Xiao T, Yan M, Wang D. **The Characteristics of Mercury Flux at the Interfaces between Two Typical Plants and the Air in Leymus chinensis Grasslands**. Internat. J. Environmental Research and Public Health, 2021; 18(19), 10115. https://doi.org/10.3390/ijerph181910115

de Krom, I., Bavius, W., Ziel, R., McGhee, E. A., Brown, R. J. C., Živković, I., Gačnik, J., Fajon, V., Kotnik, J., Horvat, M., and Ent, H. **Comparability of calibration strategies for measuring mercury concentrations in gas emission sources and the atmosphere**. Atmos. Meas. Tech., 2021, 14, 2317–2326, https://doi.org/10.5194/amt-14-2317-2021

Jing Lu, Ye Wang, Minfang Yang, Longyi Shao, Jason Hilton. **Records of volcanism and organic carbon isotopic composition (δ13Corg) linked to changes in atmospheric pCO2 and climate during the Pennsylvanian icehouse interval.** Chemical Geology, 2021, 570, 120168. https://doi.org/10.1016/j.chemgeo.2021.120168

2020

Jonas Sommar, Stefan Osterwalder, Wei Zhu. **Recent advances in understanding and measurement of Hg in the environment: Surface-atmosphere exchange of gaseous elemental mercury (Hg0)**. Science of the Total Environment, 2020, 721, 137648. https://doi.org/10.1016/j.scitotenv.2020.137648

Osterwalder, S., Eugster, W., Feigenwinter, I. and Jiskra, M. **First eddy covariance flux measurements of gaseous elemental mercury (Hg0) over a grassland**. Atmos. Meas. Tech., 2020, 13, 2057–2074, https://doi.org/10.5194/amt-13-2057-2020

Zhao, G., Zhang, W., Duan, Z. Lian, M., Li, Y., Zhu, S., & Svanberg, S. **Mercury as a Geophysical Tracer Gas - Emissions from the Emperor Qin Tomb in Xi´an Studied by Laser Radar**. Sci Rep, 2020, 10, 10414. https://doi.org/10.1038/s41598-020-67305-x

Viktor V. Kalinchuk, Evgeny A. Lopatnikov, Anatoliy S. Astakhov, Maxim V. Ivanov, Limin Hub. **Distribution of atmospheric gaseous elemental mercury (Hg(0)) from the Sea of Japan to the Arctic, and Hg(0) evasion fluxes in the Eastern Arctic Seas: Results from a joint Russian-Chinese cruise in fall 2018.** Science of the Total Environment 753. 2021. https://doi.org/10.1016/j.scitotenv.2020.142003

Nicolò Barago, Federico Floreani, Alessandro Acquavita, José María Esbrí, Stefano Covelli and Pablo Higueras. **Spatial and Temporal Trends of Gaseous Elemental Mercury over a Highly Impacted Coastal Environment (Northern Adriatic, Italy)**. Atmosphere, 2020, 11, 935; https://doi.org/10.3390/atmos11090935

V. Rimondi, P. Costagliola, R. Benesperi, M. Benvenuti, M.W. Beutel, A. Buccianti, L. Chiarantini, P. Lattanzi, D. Medas, P. Parrini. **Black pine (Pinus nigra) barks: A critical evaluation of some sampling and analysis parameters for mercury biomonitoring purposes**. Ecological Indicators, 2020, 112, 106110. https://doi.org/10.1016/j.ecolind.2020.106110

Rocio Naharro, Jose´ Maria Esbrı, Jose´ Angel Amoros, Pablo L. Higueras. **Experimental assessment of the daily exchange of atmospheric mercury in *Epipremnum aureum*.** Environ Geochem Health, 2020. https://doi.org/10.1007/s10653-020-00557-8

Samantha Jiménez-Oyola, María-Jesús García-Martínez, Marcelo F. Ortega, David Bolonio, Clara Rodríguez, José-María Esbrí, Juan F. Llamas, Pablo Higueras. **Multi-pathway human exposure risk assessment using Bayesian modeling at the historically largest mercury mining district**. Ecotoxicology and Environmental Safety 201. 2020. 110833. https://doi.org/10.1016/j.ecoenv.2020.110833

Igor Živkovic, Sabina Berisha, Jože Kotnik, Marta Jagodic, Milena Horvat. **Traceable Determination of Atmospheric Mercury Using Iodinated Activated Carbon Traps**. Atmosphere, 2020, 11, 780; https://doi.org/10.3390/atmos11080780

Marta Lazzaroni, Barbara Nisi, Daniele Rappuoli, Jacopo Cabassi and Orlando Vaselli. **A New Low-Cost and Reliable Method to Evaluate the Release of Hg0 from Synthetic Materials.** Processes, 2020, 8, 1282. https://doi.org/10.3390/pr8101282

Iris de Krom, Wijnand Bavius, Ruben Ziel, Elizabeth A. McGhee, Richard J. C. Brown, Igor Živković, Jan Gačnik, Vesna Fajon, Jože Kotnik, Milena Horvat, and Hugo Ent. **Comparability of calibration strategies for measuring mercury concentrations in gas emission sources and the atmosphere.** Atmos. Meas. Tech. Discuss., doi 10.5194/amt-2020-314, in review, 2020. https://doi.org/10.5194/amt-2020-314

Opoku Gyamfi, Peter Borgen Sorenson, Godfred Darko, Eugene Ansah, Jesper Leth Bak. **Human health risk assessment of exposure to indoor mercury vapour in a Ghanaian artisanal small-scale gold mining community**. Chemosphereб 2020, 241, 125014. https://doi.org/10.1016/j.chemosphere.2019.125014

José M. Esbrí, Pablo L. Higueras, Alba Martínez-Coronado, Rocío Naharro. **4D dispersion of total gaseous mercury derived from a mining source: identification of criteria to assess risks related with high concentrations of atmospheric mercury**. Atmos. Chem. Phys., 2020. https://doi.org/10.5194/acp-2019-1107

Jacopo Cabassi, Valentina Rimondi, Zhang Yeqing, Antonella Vacca, Orlando Vaselli, Antonella Buccianti, Pilario Costagliola. **100 years of high GEM concentration in the Central Italian Herbarium and Tropical Herbarium Studies Centre (Florence, Italy)**. J. Environ. Sciences, 2020, 87, 377-388. https://doi.org/10.1016/j.jes.2019.07.007

Jicheng Xia, Jianxu Wang, Leiming Zhang, Christopher W.N. Anderson, Xun Wang, Hua Zhang, Zhihui Dai, Xinbin Feng. **Screening of native low mercury accumulation crops in a mercury polluted mining region: Agricultural planning to manage mercury risk in farming communities.** Journal of Cleaner Production, 2020,262, 121324. https://doi.org/10.1016/j.jclepro.2020.121324

Yan J., Wang C., Wang Z., Yang S., & Li P. **Mercury concentration and speciation in mine wastes in Tongren mercury mining area, southwest China and environmental effects**. Applied Geochemistry. 2019, 106, 112-119. https://doi.org/10.1016/j.apgeochem.2019.05.008

Keegan H. Moody, Kazi M. Hasan, Sumeja Aljic, Victoria M. Blakeman, L. Perry Hicks, Danielle C. Loving, Matthew E. Moore, B. Spencer Hammett, Mónica Silva-González, Caryn S. Seney, Adam M. Kiefer. **Mercury emissions from Peruvian gold shops: Potential ramifications for Minamata compliance in artisanal and small-scale gold mining communities**. Environmental Research, 2020, 182, 109042. https://doi.org/10.1016/j.envres.2019.109042

Samantha T. Brown, Kazi M. Hasan, Keegan H. Moody, Danielle C. Loving, Kathryn E. Howe, Alaina G. Dawson, Kevin Drace, Jeffrey D. Hugdahl, Caryn S. Seney, Claudia M. Vega, Luis E. Fernandez, Adam M. Kiefer. **Method for mapping Hg0 emissions from gold shops in artisanal and small-scale gold mining communities.** MethodsX, 7, 2020, 101060. https://doi.org/10.1016/j.mex.2020.101060.

Federico Floreani, Nicolò Barago, Alessandro Acquavita, Stefano Covelli, Nicola Skert and Pablo Higueras. **Spatial Distribution and Biomonitoring of Atmospheric Mercury Concentrations over a Contaminated Coastal Lagoon (Northern Adriatic, Italy)**. Atmosphere, 2020, 11, 1280. https://doi.org/10.3390/atmos11121280

Nicolò Barago, Federico Floreani, Alessandro Acquavita, José María Esbrí, Stefano Covelli and Pablo Higueras. **Spatial and Temporal Trends of Gaseous Elemental Mercury over a Highly Impacted**

Coastal Environment (Northern Adriatic, Italy). Atmosphere, 2020, 11, 935. https://doi.org/10.3390/atmos11090935

Feng, Z., Xiao, T., Zhang, G., Zhang, L., Cui, Y., & Jiang, Y. **Mercury spatial distribution characteristics and its exposure of the endangered Jankowski's bunting**. Ecological Research, 2020, 1-12. https://doi.org/10.1111/1440-1703.12117

Ferhat Karaca, Aiganym Kumisbek, Vassilis J. Inglezakis, Seitkhan Azat, Almagul Zhakiyenova, Gulden Ormanova, Mert Guney. **DiMIZA: A dispersion modeling based impact zone assessment of mercury (Hg) emissions from coal-fired power plants and risk evaluation for inhalation exposure.** Engineering Reports, 2020, https://doi.org/10.1002/eng2.12357

Zhidong Xu, Qinhui Lu, Xiaohang Xu, Xinbin Feng, Longchao Liang, Lin Liu, Chan Li, Zhuo Chen, Guangle Qiu. **Multi-pathway mercury health risk assessment, categorization and prioritization in an abandoned mercury mining area: A pilot study for implementation of the Minamata Convention**. Chemosphere, 2020, 260, 127582, https://doi.org/10.1016/j.chemosphere.2020.127582

Zhao, G., Zhang, W., Duan, Z. et al. **Mercury as a Geophysical Tracer Gas - Emissions from the Emperor Qin Tomb in Xi´an Studied by Laser Radar**. Sci Rep, 2020, 10, 10414. https://doi.org/10.1038/s41598-020-67305-x

Nwon M. Adou-Assoumou, Akpé J Adou, Aline A. Krah-Sinan, Florent K Kouakou, Edmee C Mansilla. **Mercury poisoning within the dental clinic Myth or reality in Côte d'Ivoire**. IP Indian Journal of Conservative and Endodontics 2020, 5(3):105–108. https://doi.org/10.18231/j.ijce.2020.025

2019

National Elemental Mercury Response Guidebook. USEPA, March 2019. https://www.acac.org/forms/otherpdfs/epamercury2019.pdf

Stefan Osterwalder, Werner Eugster, Iris Feigenwinter, Martin Jiskra. **First eddy covariance flux measurements of gaseous elemental mercury (Hg0) over a grassland.** Atmos. Meas. Tech., 2020, 13, 2057–2074. https://doi.org/10.5194/amt-13-2057-2020

V. Rimondi, P. Costagliola, P. Lattanzi, G. Morelli, G. Cara, C. Cencetti, C. Fagotti, A. Fredduzzi, G. Marchetti, A. Sconocchia, S. Torricelli. **A 200 km-long mercury contamination of the Paglia and Tiber floodplain: Monitoring results and implications for environmental management**. Environmental Pollution, 2019, 255, 113191. https://doi.org/10.1016/j.envpol.2019.113191

Venturi, S., Tassi, F., Cabassi, J., Vaselli, O., Minardi, I., Neri, S., Virgili, G. **A multi-instrumental geochemical approach to assess the environmental impact of CO_2-rich gas emissions in a densely populated area: The case of Cava dei Selci (Latium, Italy)**. Applied Geochemistry, 2019, 101, 109–126. https://doi.org/10.1016/j.apgeochem.2019.01.003

A.L. Gagliano, S. Calabrese, K. Daskalopoulou, J. Cabassi, F. Capecchiacci, F. Tassi, S. Bellomo, L. Brusca, M. Bonsignore, S. Milazzo, G. Giudice, L. Li Vigni, F. Parello, and W. D'Alessandro. **Degassing and Cycling of Mercury at Nisyros Volcano (Greece**). Geofluids, 2019, 2019. https://doi.org/10.1155/2019/4783514

V. Kalinchuk, K. Aksentov, V. Karnaukh. **Gaseous elemental mercury (Hg(0)) in the surface air over the Sea of Japan, the Sea of Okhotsk and the Kuril-Kamchatka sector of the Pacific Ocean in August–September 2017**. Chemosphere, 2019, 224, 668-679. https://doi.org/10.1016/j.chemosphere.2019.02.185

Jiřina Sysalová, Ondřej Zvěřina, Rostislav Červenka & Josef Komárek. **Occurrence and transformation of mercury in formerly contaminated soils due to operation of amalgamation techniques and**

assessment of consequences. Human and Ecological Risk Assessment: An International Journal, 2019. https://doi.org/10.1080/10807039.2019.1660848

Panichev, N., Mokgalaka, N., & Panicheva, S. **Assessment of air pollution by mercury in South African provinces using lichens Parmelia caperata as bioindicators**. Environmental Geochemistry and Health. 2019, 41, 2239–2250. https://doi.org/10.1007/s10653-019-00283-w

Federico Floreani, Alessandro Acquavita, Elisa Petranich, StefanoCovelli. **Diurnal fluxes of gaseous elemental mercury from the water-air interface in coastal environments of the northern Adriatic Sea**. Science of the Total Environment, 2019, 668, 925-935. https://doi.org/10.1016/j.scitotenv.2019.03.012

Hui Zhang, Luca Nizzetto, Xinbin Feng, Katrine Borgå, Jonas Sommar, Xuewu Fu, Hua Zhang, Gan Zhang, and Thorjørn Larssen. **Assessing Air–Surface Exchange and Fate of Mercury in a Subtropical Forest Using a Novel Passive Exchange-Meter Device**. Environ.Sci. Technol. 2019, 53, 9, 4869–4879. https://doi.org/10.1021/acs.est.8b06343

Zhonggen Li, Xinyu Li, Jing Liu, Leiming Zhang, Ji Chen, Xinbin Feng. **Stone coal as a potential atmospheric mercury source in Da-Ba-Shan mountain areas, China**. Internat. J. Coal Geology, 2019, 206, 21-30. https://doi.org/10.1016/j.coal.2019.03.007

Naharro, R., Esbrí, J.M., Amorós, J. Á., García-Navarro, F.J., & Higueras, P. **Assessment of mercury uptake routes at the soil-plant-atmosphere interface**. Geochemistry: Exploration, Environment, Analysis, 2019, 19(2), 146-154.

2018

J.M. Esbrí, H. Cacovean, P. Higueras. **Usage Proposal of a common urban decorative tree (Salix alba L.) to monitor the dispersion of gaseous mercury: A case study from Turda (Romania).** Chemosphere, 2018, 193, 74-81. https://doi.org/10.1016/j.chemosphere.2017.11.007

Yuber Palacios-Torres, Karina Caballero-Gallardo, Jesus Olivero-Verbel. **Mercury pollution by gold mining in a global biodiversity hotspot, the Choco biogeographic region, Colombia**. Chemosphere, 2018, 193, 2018, 421-430. https://doi.org/10.1016/j.chemosphere.2017.10.160

Zhengcheng Song, Ping Lib, Li Ding, Zhonggen Li, Wei Zhu, Tianrong He, Xinbin Feng. **Environmental mercury pollution by an abandoned chlor-alkali plant in Southwest China.** Journal of Geochemical Exploration, 2018, 194, 81–87. https://doi.org/10.1016/j.gexplo.2018.07.017

Leobardo Rocha-Román, Jesús Olivero-Verbel, Karina Rocío Caballero-Gallardo. **Impacto de la minería del oro asociado con la contaminación por mercurio en suelo superficial de San Martín de Loba, Sur de Bolívar (Colombia).** Rev. Int. Contam. Ambie., 2018, 34 (1), 93-102. https://doi.org/10.20937/RICA.2018.34.01.08

E. Bagnato, F. Viveiros, J.E. Pacheco, F. D'Agostino, C. Silva, V. Zanon**. Hg and CO2 emissions from soil diffuse degassing and fumaroles at Furnas Volcano (São Miguel Island, Azores): Gas flux and thermal energy output**. J. Geochemical Exploration, 2018, 190, 39–57. https://doi.org/10.1016/j.gexplo.2018.02.017

Zhu, W., Li, Z., Li, P., Yu, B., Lin, C.-J., Sommar, J., Feng, X**. Re-emission of legacy mercury from soil adjacent to closed point sources of Hg emission**. Environ. Pollut. 2018. https://doi.org/10.1016/j.envpol.2018.07.002

Shan, B., Wang, G., Cao, F., Wu, D., Liang, W., & Sun, R. **Mercury emission from underground coal fires in the mining goaf of the Wuda Coalfield, China**. Ecotoxicology and Environmental Safety, 2019, 182, 109409. https://doi.org/10.1016/j.ecoenv.2019.109409

Chunhui Lia, Handong Lianga, Ming Liang, Yang Chen, Yi Zhou. **Mercury emissions flux from various land uses in old mining area, Inner Mongolia, China**. J. Geochemical Exploration, 2018, 192. https://doi.org/10.1016/j.gexplo.2018.06.011

Lian M, Shang L, Duan Z, Li Y, Zhao G, Zhu S, Qiu G, Meng B, Sommar J, Feng X, Svanberg S. **Lidar mapping of atmospheric atomic mercury in the Wanshan area, China**. Environ Pollut., 2018, 240:353-358. https://doi.org/10.1016/j.envpol.2018.04.104

Wilson, E., Lafferty, J. S., Thiboldeaux, R., Tomasallo, C., Grajewski, B., Wozniak, R., & Meiman, J. **Occupational mercury exposure at a fluorescent lamp recycling facility—Wisconsin, 2017**. Morbidity and Mortality Weekly Report, 2018, 67(27), 763

2017

Francesca Sprovieri, Nicola Pirrone, Mariantonia Bencardino, Francesco D'Amore, Helene Angot, Carlo Barbante, Ernst-Günther Brunke, Flor Arcega-Cabrera, Warren Cairns, Sara Comero, María del Carmen Diéguez, Aurélien Dommergue, Ralf Ebinghaus, Xin Bin Feng, Xuewu Fu, Patricia Elizabeth Garcia, Bernd Manfred Gawlik, Ulla Hageström, Katarina Hansson, Milena Horvat, Jože Kotnik, Casper Labuschagne, Olivier Magand, Lynwill Martin, Nikolay Mashyanov, Thumeka Mkololo, John Munthe, Vladimir Obolkin, Martha Ramirez Islas, Fabrizio Sena, Vernon Somerset, Pia Spandow, Massimiliano Vardè, Chavon Walters, Ingvar Wängberg, Andreas Weigelt, Xu Yang, and Hui Zhang. **Five-year records of Total Mercury Deposition flux at GMOS sites in the Northern and Southern Hemispheres**. Atmos. Chem. Phys., 2017, 17, 2689-2708. https://doi.org/10.5194/acp-2016-517-2016

Oleg Travnikov , Hélène Angot , Paulo Artaxo , Mariantonia Bencardino , Johannes Bieser , Francesco D'Amore , Ashu Dastoor , Francesco De Simone , María del Carmen Diéguez , Aurélien Dommergue, Ralf Ebinghaus , Xin Bin Feng, Christian N. Gencarelli , Ian M. Hedgecock , Olivier Magand , Lynwill Martin, Volker Matthias , Nikolay Mashyanov, Nicola Pirrone, Ramesh Ramachandran, Katie Alana Read, Andrei Ryjkov , Noelle E. Selin, Fabrizio Sena, Shaojie Song, Francesca Sprovieri , Dennis Wip, Ingvar Wängberg, and Xin Yang. **Multi-model study of mercury dispersion in the atmosphere: atmospheric processes and model evaluation**. Atmos. Chem. Phys., 2017, 17, 5271–5295. https://doi.org/10.5194/acp-17-5271-2017

V. Kalinchuk, E. Lopatnikov, A. Astakhov. **Gradient measurements of gaseous elemental mercury (Hg^0) in the marine boundary layer of the northwest Sea of Japan (East Sea).** Environmental Pollution, 2017, 237. https://doi.org/10.1016/j.envpol.2017.11.055

Xiaolong Sun, Xueyun Si, Yang Xiang, and Dongying Liu. **Soil mercury spatial variations in the fault zone and corresponding influence factors**. Terr. Atmos. Ocean. Sci., 28(3), 283-294, 2017. https://doi.org/10.3319/TAO.2016.09.29.02

Berdonces M. A. L., Higueras P. L., Fernández-Pascual M., Borreguero A. M., Carmona M. **The role of native lichens in the biomonitoring of gaseous mercury at contaminated sites**. J. Environmental Management, 2017, 186(2), 207–213. https://doi.org/10.1016/j.jenvman.2016.04.047

O. Vaselli, B. Nisi, D. Rappuoli, J. Cabassi, and F. Tassi. **Gaseous Elemental Mercury and Total and Leached Mercury in Building Materials from the Former Hg-Mining Area of Abbadia San Salvatore (Central Italy)**. Int. J. Environ. Res. Public Health 2017, 14, 425. https://doi.org/10.3390/ijerph14040425

Marcotte S., Estel L., Minchin S., Leboucher S., Le Meur S. **Monitoring of lead, arsenic and mercury in the indoor air and settled dust in the Natural History Museum of Rouen (France)**. Atm Pollut Res, 2017, 8(3), 483–489. https://doi.org/10.1016/j.apr.2016.12.002

E. Bagnato, E. Oliveri, A. Acquavita, S. Covelli, E. Petranich, M. Barra, F. Italiano, F. Parello, M. Sprovieri. **Hydrochemical mercury distribution and air-sea exchange over the submarine hydrothermal vents off-shore Panarea Island (Aeolian arc, Tyrrhenian Sea)**. Marine Chemistry, 2017, 194, 63-78. https://doi.org/10.1016/j.marchem.2017.04.003

Jiřina Sysalová, Jan Kučera, Barbora Drtinová, Rostislav Červenka, Ondřej Zvěřina, Josef Komárek, Jan Kameník. **Mercury species in formerly contaminated soils and released soil gases**. Science of The Total Environment, 2017, 584–585, 1032-1039. https://doi.org/10.1016/j.scitotenv.2017.01.157

Sysalová, J., Kučera, J., Drtinová, B., Červenka, R., Zvěřina, O., Komárek, J., & Kameník, J. **Mercury species in formerly contaminated soils and released soil gases**. Science of the Total Environment, 2017, 584, 1032-1039. https://doi.org/10.1016/j.scitotenv.2017.01.157

Acquavita, A., Biasiol, S., Lizzi, D., Mattassi, G., Pasquon, M., Skert, N., & Marchiol, L. **Gaseous elemental mercury level and distribution in a heavily contaminated site: The ex-chlor alkali plant in torviscosa (Northern Italy)**. Water, Air, & Soil Pollution, 2017, 228(2), 1-14. https://doi.org/10.1007/s11270-016-3234-z

2016

F. Sprovieri, N. Pirrone, M. Bencardino, F. D'amore, S. Cinnirella, M. Del Carmen Dieguez, P.E. Garcia, K.A Read, L.M. Neves, P. Artaxo, F. G. Morais, B.M. Gawlik, F. Sena, M.R. Islas, F.A. Cabrera, D. Wip, I. Wangberg, J. Munthe, R. Ebinghaus, A. Weigelt, F. Slemr, A. Dommergue, O. Magand, C. Barbante, W. Cairns, J. Knoery, M. Horvat, J. Kotnik, N. Ogrinc, V. Fajon, N. Mashyanov, R. Ramesh, P. Selvam, X. Feng, Zh. Hui, F. Xuew, H. Skov, C. Nordstroem, H. Barbosa, E. Brunke, C. Labuschagne, L. Martin. **Atmospheric Mercury Concentrations observed at the ground-based monitoring sites globally distributed in the framework of the GMOS network**. Atmos. Chem. Phys., 2016, 16, 11915–11935. https://doi.org/10.5194/acp-16-11915-2016

A. Weigelt, F. Slemr, R. Ebinghaus, N. Pirrone, J. Bieser, J. Bödewadt, G. Esposito, P.F. J. van Velthoven. **Mercury emissions of a coal-fired power plant in Germany**. Atmos. Chem. Phys., 2016, 16, 13653–13668. https://doi.org/10.5194/acp-16-13653-2016

Esbrí, J. M., Martínez-Coronado, A., and Higueras, P. L. **Temporal variations in gaseous elemental mercury concentrations at a contaminated site: Main factors affecting nocturnal maxima in daily cycles**. Atmos. Environ., 2016, 125, 8–14. https://doi.org/10.1016/j.atmosenv.2015.10.064

Deng C., Xie H., Ye X., Zhang H., Liu M., Tong Y., Ou L., Yuan W., Wang X. **Mercury risk assessment combining internal and external exposure methods for a population living near a municipal solid waste incinerator**. Environmental Pollution, 2016, 219. 1060–1068. https://doi.org/10.1016/j.envpol.2016.09.006

Y. Liang, H. Liang, S. Zhu. **Mercury emission from spontaneously ignited coal gangue hill in Wuda coalfield, Inner Mongolia, China**. Fuel, 2016, 182, 525-530. https://doi.org/10.1016/j.fuel.2016.05.092

Grzegorz Majewski, Karolina Kociszewska, Wioletta Rogula-Kozłowska, et.al. **Submicron Particle-Bound Mercury in University Teaching Rooms: A Summer Study from Two Polish Cities**. Atmosphere, 2016, 7(9), 117. https://doi.org/10.3390/atmos7090117

Tassi, F., Cabassi, J., Calabrese, S., Nisi, B., Venturi, S., Capecchiacci, F., Giannini, L., Vaselli, O. **Diffuse soil gas emissions of gaseous elemental mercury (GEM) from hydrothermal-volcanic systems: an innovative approach by using the static closed chamber method**. Appl. Geochem. 2016, 66, 234–241. https://doi.org/10.1016/j.apgeochem.2016.01.002

Norwegian Oil and Gas. **Recommended guidelines for identification, assessment, control and follow-up of mercury exposure**, No 132. 2016

2015

Weigelt A., Ebinghaus R., Pirrone N., Bieser J., Bödewadt J., Esposito G., Slemr F., van Velthoven P. F. J., Zahn A., Ziereis H. **Tropospheric mercury vertical profiles between 500 and 10 000 m in central Europe.** Atmospheric Chemistry and Physics, 2015, 15, 28217–28247. https://doi.org/10.5194/acpd-15-28217-2015

Ci Z., Wang C., Wang Z., Zhang X. **Elemental mercury (Hg(0)) in air and surface waters of the Yellow Sea during late spring and late fall 2012: Concentration, spatial-temporal distribution and air/sea flux.** Chemosphere, 2015, 119, 199–208. https://doi.org/10.1016/j.chemosphere.2014.05.064

Oseas García, Marcello M. Veiga, Paul Cordy, Osvaldo E. Suescún, Jorge Martin Molina, Monika Roeser. **Artisanal gold mining in Antioquia, Colombia: a successful case of mercury reduction**. J. Cleaner Production, 2015, 90, 244-252. https://doi.org/ 10.1016/j.jclepro.2014.11.032

Esbrí, J. M., López-Berdonces, M. A., Fernández-Calderón, S., Higueras, P., and Díez, S. **Atmospheric mercury pollution around a chlor-alkali plant in Flix (NE Spain): an integrated analysis**. Environ. Sci. Pollut. Res., 2015, 22, 4842–4850. https://doi.org/10.1007/s11356-014-3305-x

Cordy, P., Veiga, M., Bernaudat, L., & Garcia, O. **Successful airborne mercury reductions in Colombia**. Journal of Cleaner Production, 2015, 108, 992–1001. https://doi.org/10.1016/j.jclepro.2015.06.102

Li P., Du B., Chan H. M., Feng X. **Human inorganic mercury exposure, renal effects and possible pathways in Wanshan mercury mining area, China**. Environmental Research, 2015, 140, 198-204. https://doi.org/10.1016/j.envres.2015.03.033

Gustin, M. S., Amos, H. M., Huang, J., Miller, M. B., and Heidecorn, K. **Measuring and modeling mercury in the atmosphere: a critical review**. Atmos. Chem. Phys., 2015, 15, 5697–5713. https://doi.org/10.5194/acp-15-5697-2015

Watson D., Miller C., Lester B., Lowe K., Southworth G., Bogle M. A., Liang L., Pierce E. **Mercury source zone identification using soil vapor sampling and analysis.** Frontiers of Environmental Science & Engineering, 2015, 9(4), 596–604. https://doi.org/10.1007/s11783-014-0709-2

Jacopo Cabassi. **Gaseous mercury (Hg0) in the former mining area of Abbadia San Salvatore (Mt. Amiata, Siena) and in quiescent and active volcanic areas: distribution in air and comparison with other atmospheric pollutants**. PLINIUS, 2015, 41, 2015

Nowak, B., Czaplicka, M. **Conception of the Mercury Deposition Coefficient Based on Long-term Stream Intensity Measurements of Mercury Species TGM and TPM**. Water Air Soil Pollut., 2015, 226, 403. https://doi.org/10.1007/s11270-015-2666-1

Bogans, E., Skudra, J., Svagere, A., & Gavare, Z. **Analysis of Mercury Pollution in Air in Urban Area of Riga Using Atomic Absorption Spectrometry**. In: Sustainable Development, Knowledge Society and Smart Future Manufacturing Technologies, 2015, 219-228. Springer, Cham. https://doi.org/ 10.1007/978-3-319-14883-0_15

Baatartsol, D., Suvd, D., Ser-Od, H., Battuvshin, B., Oyu, T., Och, G., ... & Unursaikhan, S. **A study of mercury determination in the waste storage area of health care organizations in Ulaanbaatar City**. In Applied Mechanics and Materials, 2015, 768, 220-224. https://doi.org/10.4028/www.scientific.net/AMM.768.220

Zhou, X., Chen, Z., & Cui, Y. **Environmental impact of CO2, Rn, Hg degassing from the rupture zones produced by Wenchuan Ms 8.0 earthquake in western Sichuan, China**. Environmental geochemistry and health, 2015, 38(5), 1067-1082. https://doi.org/10.1007/s10653-015-9773-1

2014

Higueras P., Oyarzun, R., Kotnik J., Esbrí J. M., Martínez-Coronado A., Horvat M., López-Berdonces M. A., Llanos W., Vaselli O., Nisi B., Mashyanov N., Ryzov R., Spiric Z., Panichev N., McCrindle R., Feng X., Fu X., Lillo J., Loredo J., García M. E., Alfonso P., Villegas K., Palacios S., Oyarzún J., Maturana H., Contreras F., Adams M., Ribeiro-Guevara S., Niecenski L. P., Giammanco S., Huremović J. **A compilation of field surveys on gaseous elemental mercury (GEM) from contrasting environmental settings in Europe, South America, South Africa and China: separating fads from facts.** Environ Geochem and Health. 2014, 36(4), 713–734. https://doi.org/10.1007/s10653-013-9591-2

Jesús Olivero-Verbel, Fredys Young-Castro, Karina Caballero-Gallardo. **Contaminación por mercurio en aire del distrito minero de San Martín de Loba en el departamento de Bolívar, Colombia**. Rev. Int. Contam. Ambie. 2014, 30 (1) 7-13.

José Tejero, Pablo L. Higueras, Ignacio Garrido, José M. Esbrí, Roberto Oyarzun, Santiago Español. **An estimation of mercury concentrations in the local atmosphere of Almadén (Ciudad Real Province, South Central Spain) during the twentieth century**. Environ Sci Pollut Res, 2014, 22, 4833-4841. https://doi.org/10.1007/s11356-014-2860-5

Jesús Olivero-Verbel, Fredys Young-Castro, Karina Caballero-Gallardo. **Contaminación por mercurio en aire del distrito minero de San Martín de Loba en el departamento de Bolívar, Colombia**. Rev. Int. Contam. Ambie. 2014, 30 (1) 7-13. ISSN 0188-4999

Liang, Y., Liang, H., & Zhu, S. **Mercury emission from coal seam fire at Wuda, Inner Mongolia, China**. Atmospheric Environment, 83, 176–184. https://doi.org/10.1016/j.atmosenv.2013.09.001

Bagnato, E., Barra, M., Cardellini, C., Chiodini, G., Parello, F., & Sprovieri, M. **First combined flux chamber survey of mercury and CO_2 emissions from soil diffuse degassing at Solfatara of Pozzuoli crater, Campi Flegrei (Italy): Mapping and quantification of gas release**. J. Volcanology and Geothermal Research, 2014, 289, 26–40. https://doi.org/10.1016/j.jvolgeores.2014.10.017

Carpi, A., Fostier, A. H., Orta, O. R., dos Santos, J. C., & Gittings, M. **Gaseous mercury emissions from soil following forest loss and land use changes**: Field experiments in the United States and Brazil, 2014, Atmospheric Environment, 96, 423–429. https://doi.org/10.1016/j.atmosenv.2014.08.004

Esbrí, J. M., López-Berdonces, M. A., Fernández-Calderón, S., Higueras, P., & Díez, S. **Atmospheric mercury pollution around a chlor-alkali plant in Flix (NE Spain): an integrated analysis**. Environmental Science and Pollution Research, 2014, 22(7), 4842–4850. https://doi.org/10.1007/s11356-014-3305-x

Guo H., Lin H., Zhang W., Deng C., Wang H., Zhang Q., Shen Y., Wang X. **Influence of meteorological factors on the atmospheric mercury measurement by a novel passive sampler**. Atmospheric Environment, 2014. 97, 310–315. https://doi.org/10.1016/j.atmosenv.2014.08.028

Higueras, P., Lorenzo, S., Esbrí, J. M., García-Noguero, E. M., & Reyes-Bozo, L. **Soil pollution related to mercury-mining activities in the proximity of Usagre (Badajoz, SW Spain)**. International Journal of Mining, Reclamation and Environment, 28(6), 377–388. https://doi.org/10.1080/17480930.2014.967918

Kalinchuk V. V., Astakhov A. S. **Atmochemical mercury dispersion aureoles over active geologic structures of the northern Sea of Japan**. Russian Geology and Geophysics, 2014, 55(12), 1379–1386. https://doi.org/10.1016/j.rgg.2014.11.002

Nowak B., Korszun-Kłak K., Zielonka U. **Long-term measurements of atmospheric mercury species (TGM, TPM) and Hg deposition in the Silesian Region, Poland – Concept of the mercury deposition coefficient**. Archives of Environmental Protection, 2014, 40(3), 43–60. https://doi.org/10.2478/aep-2014-0023

Khwaja M.A., Abbasi M.S. **Mercury poisoning dentistry: high-level indoor air mercury contamination at selected dental sites**. Reviews on Environmental Health, 2014, 29(1-2), 29–31. https://doi.org/10.1515/reveh-2014-0010

Khwaja M.A., Abbasi M.S., Mehmood F., Jahangir S. **Study of high levels indoor air mercury contamination from mercury amalgam use in dentistry**. Science Technology and Development, 2014, 33(2), 94–106. www.sdpi.org/publications/publication_details-604-50.html

Scheepers, P.T.J., van Ballegooij-Gevers, M., & Jans, H. **Biological monitoring involving children exposed to mercury from a barometer in a private residence**. Toxicology Letters, 2014231(3), 365–373. https://doi.org/10.1016/j.toxlet.2014.03.017

Ren W., Duan L., Zhu Z., Du W., An Z., Xu L., Zhang C., Zhuo Y., Chen C. **Mercury Transformation and Distribution Across a Polyvinyl Chloride (PVC) Production Line in China**. Environmental Science & Technology, 2014, 48(4), 2321–2327. https://doi.org/10.1021/es404147c

Tucaliuc O.M., Cretescu I., Nemtoi G., Breaban I.G., Soreanu G., Iancu O.G. **Monitoring of mercury from air and urban dust in the industrial area of Iasi municipality**. Environmental Engineering and Management Journal, 2014, 13(8), 2051–2061. http://omicron.ch.tuiasi.ro/EEMJ/

Wu, Q., Wang, S., Wang, L., Liu, F., Lin, C.-J., Zhang, L., & Wang, F. **Spatial distribution and accumulation of Hg in soil surrounding a Zn/Pb smelter**. Sci. Total Environment, 2014, 496, 668–677. https://doi.org/10.1016/j.scitotenv.2014.02.067

Liang, P., Zhang, C., Yang, Y., & Wang, D. **A simulation study of mercury release fluxes from soils in wet–dry rotation environment**. Journal of Environmental Sciences, 2014, 26(7), 1445-1452. Https://doi.org/10.1016/j.jes.2014.05.010

Zheng, J., Pelchat, P., Vaive, J., Bass, D., Ke, F. **Total mercury in snow and ice samples from Canadian High Arctic ice caps and glaciers: A practical procedure and method for total Hg quantification at low pgg−1 level**. Sci. Total Environment, 2014, 468-469, 487–494. https://doi.org/10.1016/j.scitotenv.2013.08.078

A. Polissar, R.L. Lippincott. **Tracking a Potential Mercury Emissions Source – Measurements in the Vicinity of the LCP Chemicals, Inc. Superfund Site in Linden, NJ**. New Jersey Department of Environment Protection, 2014. https://www.nj.gov/dep/dsr/mercury/Tracking%20a%20Potential%20Mercury%20Emissions%20Source_Full%20Report.pdf

2013

Higueras P., Esbrí J. M., Oyarzun R., Llanos W., Martínez-Coronado A., Lillo J., López-Berdonces M. A., García-Noguero E. M. **Industrial and natural sources of gaseous elemental mercury in the Almadén district (Spain): An updated report on this issue after the ceasing of mining and metallurgical activities in 2003 and major land reclamation works**. Environmental Research, 2013, 125, 197–208. https://doi.org/10.1016/j.envres.2012.10.011

Vaselli O., Higueras P., Nisi B., Esbrí J. M., Cabassi J., Martínez-Coronado A., Tassi F., Rappuoli D. **Distribution of gaseous Hg in the mercury mining district of Mt. Amiata (Central Italy): A geochemical survey prior the reclamation project**. Environmental Research, 2013, 125, 179–187. https://doi.org/10.1016/j.envres.2012.12.010

Carmona M., Llanos W., Higueras P., Kocman D. **Mercury emissions in equilibrium: a novel approach for the quantification of mercury emissions from contaminated soils**. Analytical Methods, 2013, 5(11), 2793–2801. https://doi.org/10.1039/c3ay25700b

Emanuela Bagnato, Giancarlo Tamburello, Alessandro Aiuppa, Mario Sprovieri, George E. Vougioukalakis, Michelle Parks. **Mercury emissions from soils and fumaroles of Nea Kameni volcanic**

centre, Santorini (Greece). Geochemical Journal, 2013, 47, 437-450. https://doi.org/10.2343/geochemj.2.0263

Bagnato E., Sproveri M., Barra M., Bitetto M., Bonsignore M., Calabrese S., Di Stefano V., Oliveri E., Parello F., Mazzola S. **The sea–air exchange of mercury (Hg) in the marine boundary layer of the Augusta basin (Southern Italy): Concentrations and evasion flux**. Chemosphere, 2013, 93(9), 2024–2032. https://doi.org/10.1016/j.chemosphere.2013.07.025

Wip, D., Warneke, T., Petersen, A.K. et al. **Urban mercury pollution in the City of Paramaribo, Suriname.** Air Qual Atmos Health 2013, 6, 205–213. https://doi.org/10.1007/s11869-011-0162-3

Cordy P., Veiga M., Crawford B., Garcia O., Gonzalez V., Moraga D., Roeser M., Wip D. **Characterization, mapping, and mitigation of mercury vapour emissions from artisanal mining gold shops**. Environmental Research, 2013, 125, 82-91. https://doi.org/10.1016/j.envres.2012.10.015

Fantozzi L., Ferrara R., Dini, F., Tamburello L., Pirrone N., Sprovieri F. **Study on the reduction of atmospheric mercury emissions from mine waste enriched soils through native grass cover in the Mt. Amiata region of Italy**. Environmental Research, 2013, 125, 69–74. https://doi.org/10.1016/j.envres.2013.02.004

Qiu G., Feng X., Meng B., Zhang C., Gu C., Du B., Lin Y. **Environmental geochemistry of an abandoned mercury mine in Yanwuping, Guizhou Province, China**. Environmental Research, 2013, 125, 124–130. https://doi.org/10.1016/j.envres.2013.01.008

Zhu J., Wang D., Ma M. **Mercury release flux and its influencing factors at the air-water interface in paddy field in Chongqing, China**. Chinese Science Bulletin, 2013, 58(2), 266–274. https://doi.org/10.1007/s11434-012-5412-8

Zhu W., Li Z., Chai X., Hao Y., Lin C.J., Sommar J., Feng X. **Emission characteristics and air–surface exchange of gaseous mercury at the largest active landfill in Asia**. Atmospheric Environment, 2013, 79, 188–197. https://doi.org/10.1016/j.atmosenv.2013.05.083

Zhu W., Sommar J., Li Z., Feng X., Lin C. J., Li G. **Highly elevated emission of mercury vapor due to the spontaneous combustion of refuse in a landfill**. Atmospheric Environment, 2013, 79, 540–545. https://doi.org/10.1016/j.atmosenv.2013.07.016

Niu, Z., Zhang, X., Wang, S., Zeng, M., Wang, Z., Zhang, Y., & Ci, Z. **Field controlled experiments on the physiological responses of maize (Zea mays L.) leaves to low-level air and soil mercury exposures**. Environ. Science and Pollution Research, 2014, 21(2), 1541–1547. https://doi.org/10.1007/s11356-013-2047-5

Niu Z., Zhang X., Wang S., Ci Z., Kong X., Wang Z. **The linear accumulation of atmospheric mercury by vegetable and grass leaves: potential biomonitors for atmospheric mercury pollution**. Environmental Science and Pollution Research, 2013, 20(9), 6337–6343. https://doi.org/10.1007/s11356-013-1691-0

Zhang Gang; Wang Ning; Ai JianChao; Wang ZhanHua; Wang Yi; Xu DeXuan. **Characteristics of mercury flux between soil and air under the meteorological condition of durative precipitation**. China Environmental Science, 2013, 33(3), 409-415

Kono, Y., & Tomiyasu, T. **Quantitative evaluation of real-time measurements of atmospheric mercury in a mercury-contaminated area**. Journal of Environment and Safety, 2013, 4(2), 2_153-2_157. https://doi.org/10.11162/daikankyo.ES12P1201

2012

Z.H. Dai, X.B. Feng, J. Sommar, P. Li, X.W. Fu. **Spatial distribution of mercury deposition fluxes in Wanshan Hg mining area, Guizhou province, China**. Atmos. Chem. Phys., 2012, 12, 6207–6218. https://doi.org/10.5194/acp-12-6207-2012

Xuewu Fu, Xinbin Feng, Jonas Sommar, Shaofeng Wang. **A review of studies on atmospheric mercury in China**. Sci. Total Environ., 2012, 421–422, 73-81. https://doi.org/10.1016/j.scitotenv.2011.09.089

The Real Cost of Dental Mercury. Concorde East/West Sprl, Brussels, 2012, 59 p. https://mercuryfreedentistry.files.wordpress.com/2016/02/the-real-cost-of-dental-mercury.pdf

Monitoring Mercury in Air in Armenia, Using LUMEX, 2012. http://awhhe.am/2012-monitoring-mercury-in-air-in-armenia-using-lumex/

Aksentov K.I., Kalinchuk V.V. **Atomic mercury distribution features in the surface air layer in the Sea of Japan in the fall of 2010**. Russian Meteorology and Hydrology, 2012, 37(10), 674–680. https://doi.org/10.3103/S1068373912100056

Alpert G. D., Herman-Haase H., Roberts M. **A field method for the detection of elemental mercury in sink traps**. J. Chemical Health & Safety, 2012, 19(2), 22–26. https://doi.org/10.1016/j.jchas.2011.06.003

Kevin Drace, Adam M. Kiefer, Marcello M. Veiga, Matt K. Williams, Benjamin Ascari, Kassandra A. Knapper, Kaitlyn M. Logan, Vanessa M. Breslin, Ashley Skidmore, Daniel A. Bolt, Grant Geist, Lorlyn Reidy, James V. Cizdziel. **Mercury-free, small-scale artisanal gold mining in Mozambique: utilization of magnets to isolate gold at clean tech mine**. J. Cleaner Production, 2012, 32, 2012, 88-95. https://doi.org/10.1016/j.jclepro.2012.03.022

Drace K., Kiefer A.M., Veiga M.M., Williams M.K., Ascari B., Knapper K.A., Logan K.M., Breslin V.M., Skidmore A., Daniel A. Bolt, Grant Geist, Reidy L., Cizdziel J. V. **Mercury-free, small-scale artisanal gold mining in Mozambique: utilization of magnets to isolate gold at clean tech mine**. J. Cleaner Production., 2012, 88–95. https://doi.org/10.1016/j.jclepro.2012.03.022

Engle M. A., Radke L. F., Heffern E. L., O'Keefe J. M. K., Hower J. C., Smeltzer C. D., Hower J. M., Olea R. A., Eatwell R. J., Blake D. R., Emsbo-Mattingly S. D., Stout S. A., Queen g., Aggen K. L., Kolker A., Prakash A., Henke K. R., Stracher G. B., Schroeder P. A., Román-Colón Y., ter Schure A. **Gas emissions, minerals, and tars associated with three coal fires, Powder River Basin, USA**. Sci. Total Environment, 2012, 420, 146–159. https://doi.org/10.1016/j.scitotenv.2012.01.037

Higueras P., Llanos W., García M. E., Millán R., Serrano C. **Mercury vapor emissions from the Ingenios in Potosí (Bolivia)**. J. Geochemical Exploration, 2012, 116, 1–7. https://doi.org/10.1016/j.gexplo.2011.05.004

Zhang W., Tong Y., Hu D., Ou L., Wang X. **Characterization of atmospheric mercury concentrations along an urban–rural gradient using a newly developed passive sampler**. Atmospheric Environment, 2012, 47, 26–32. https://doi.org/10.1016/j.atmosenv.2011.11.046

K. Kositkanawuth, R.H. Gangupomu, M.L. Sattler, B.H. Dennis, F.M. MacDonnell, R. Billo & J.W. Priest. **Air impacts from three alternatives for producing JP-8 jet fuel**. Journal of the Air & Waste Management Association, 2012, 62(10), 1182-1195. https://doi.org/10.1080/10962247.2012.700632

2011

A. Yasutake, J.P. Cheng, M. Kiyono, S. Uraguchi, X. Liu, K. Miura, Y. Yasuda, and N. Mashyanov. **Rapid Monitoring of Mercury in Air from an Organic Chemical Factory in China Using a Portable Mercury Analyzer**. TheScientificWorldJOURNAL, 2011, 11, 1630–1640. https://doi.org/10.1100/2011/493207

González-Carrasco V., Velasquez-Lopez P. C., Olivero-Verbel J., Nerlis Pájaro-Castro N. **Air mercury contamination in the gold mining town of Portovelo, Ecuador**. Bulletin of Environmental Contamination and Toxicology, 2011, 87, 250–253. https://doi.org/10.1007/s00128-011-0345-5

Jinshan Zhu, Dingyong Wang, Xiao Liu, Yutong Zhang. **Mercury fluxes from air/surface interfaces in paddy field and dry land**. Applied Geochemistry, 2011, 26(2), 249-255. https://doi.org/10.1016/j.apgeochem.2010.11.025

David Kocman, Polona Vreca, Vesna Fajon, Milena Horvat. **Atmospheric distribution and deposition of mercury in the Idrija Hg mine region, Slovenia**. Environ. Res., 2011, 111, 1–9. https://doi.org/10.1016/j.envres.2010.10.012

Astakhov, A.S., Ivanov, M.V. & Li, B.Y. **Hydrochemical and atmochemical mercury dispersion zones over hydrothermal vents of the submarine Piip Volcano in the Bering Sea**. Oceanology, 2011, 51, 826. https://doi.org/10.1134/S0001437011050031

Paul Cordy, Marcello M. Veiga, Ibrahim Salih, Sari Al-Saadi, Stephanie Console, Oseas Garcia, Luis Alberto Mesa, Patricio C. Velásquez-López, Monika Roeser. **Mercury contamination from artisanal gold mining in Antioquia, Colombia: The world's highest per capita mercury pollution**. Science of the Total Environment, 2011, 410-411, 154–160. https://doi.org/10.1016/j.scitotenv.2011.09.006

Tanja Ljubic Mlakar, Milena Horvat, Jože Kotnik, Zvonka Jeran, Tomaž Vuk, Tanja Mrak, Vesna Fajon. **Biomonitoring with epiphytic lichens as a complementary method for the study of mercury contamination near a cement plant.** Environ Monit Assess., 2011, 181:225–241. https://doi.org/10.1007/s10661-010-1825-5

A. Martínez-Coronado, R. Oyarzun, J.M. Esbrí, W. Llanos, P. Higueras. **Sampling high to extremely high Hg concentrations at the Cerco de Almadenejos, Almadén mining district (Spain): The old metallurgical precinct (1794 to 1861 AD) and surrounding areas**. J. Geochem. Explor., 2011, 109, 70–77. https://doi.org/10.1016/j.gexplo.2010.04.007

Willians Llanos, David Kocman, Pablo Higueras and Milena Horvat. **Mercury emission and dispersion models from soils contaminated by cinnabar mining and metallurgy**. J. Environ. Monit., 2011, 13, 3460. https://doi.org/10.1039/c1em10694e

C.S. Eckley, M. Gustin, F. Marsik, M.B. Miller. **Measurement of surface mercury fluxes at active industrial gold mines in Nevada (USA).** Science of the Total Environment,2011, 409, 514–522. https://doi.org/10.1016/j.scitotenv.2010.10.024

Shi W F, Feng X B, Zhang G, et al. **High-precision measurement of mercury isotope ratios of atmospheric deposition over the past 150 years recorded in a peat core taken from Hongyuan, Sichuan Province, China**. Chinese Sci Bull, 2011, 56, 877−882. https://doi.org/10.1007/s11434-011-4396-0

Bogans E., Gavare Z., Svagere A., Poikane R., Skudra J. **Mercury pollution exploration in Latvia with high-sensitivity Zeeman atomic absorption spectrometry**. Scientific Journal of Riga Technical University. Environ. Climate Technol., 2011, 7, 39–45. https://doi.org/10.2478/v10145-011-0026-y

CHASING MERCURY: **Measuring Mercury Levels in the Air Across the Philippines**. 2011 http://bantoxics.org/wp-content/uploads/2017/10/Chasing-Mercury.pdf

Ci Z. J., Zhang X. S., Wang Z. W., Niu Z. C. **Atmospheric gaseous elemental mercury (GEM) over a coastal/rural site downwind of East China: Temporal variation and long-range transport**. Atmospheric Environment, 2011, 45(15), 2480–2487. https://doi.org/10.1016/j.atmosenv.2011.02.043

Ci Z. J., Zhang X. S., Wang Z. W., Niu Z. C., Diao X. Y., Wang S. W. **Distribution and air-sea exchange of mercury (Hg) in the Yellow Sea**. Atmospheric Chemistry and Physics Discussions, 2011, 11, 1511–1542. https://doi.org/10.5194/acpd-11-1511-2011

Ci Z. J., Zhang X. S., Wang Z. W. **Elemental mercury in coastal seawater of Yellow Sea, China: Temporal variation and air–sea exchange**. Atmospheric Environment, 2011, 45(1), 183–190. https://doi.org/10.1016/j.atmosenv.2010.09.025

Li P., Feng X., Qiu G., Wan Q. **Hair can be a good biomarker of occupational exposure to mercury vapor: Simulated experiments and field data analysis**. Sci. Total Environ., 2011, 409(20), 4484–4488. https://doi.org/10.1016/j.scitotenv.2011.06.045

Nguyen D. L., Kim J. Y., Shim S.-G., Zhang X.-S. **Ground and shipboard measurements of atmospheric gaseous elemental mercury over the Yellow Sea region during 2007–2008**. Atmospheric Environment. – 2011, 45(1), 253–260. https://doi.org/10.1016/j.atmosenv.2010.07.021

Niu Z., Zhang X., Wang Z., Ci Z. **Field controlled experiments of mercury accumulation in crops from air and soil**. Environmental Pollution, 2011, 159(10), 2684–2689. https://doi.org/10.1016/j.envpol.2011.05.029

Wang J., Feng X., Anderson C. W. N., Zhu W., Yin R., Wang H. **Mercury distribution in the soil–plant–air system at the Wanshan mercury mining district in Guizhou, Southwest China**. Environmental Toxicology and Chemistry, 2011, 30(12), 2725–2731. https://doi.org/10.1002/etc.681

Webber W. B., Ernest L. J., Vangapandu S. **Mercury exposures in university herbarium collections**. Journal of Chemical Health and Safety, 2011, 18(2), 9–12. https://doi.org/10.1016/j.jchas.2010.04.003

2010

EUROPEAN STANDARD **EN 15852:2010 Ambient air quality - Standard method for the determination of total gaseous mercury**

Zhang, H., Feng, X., Larssen, T., Qiu, G., & Vogt, R. D. **In inland China, rice, rather than fish, is the major pathway for methylmercury exposure**. Environmental health perspectives, 2010, 118(9), 1183-1188. https://doi.org/10.1289/ehp.1001915

Richard J. C. Brown, N. Pirrone, C. van Hoekc F. Sprovieri, R. Fernandez and K. Tote. **Standardisation of a European measurement method for the determination of total gaseous mercury: Results of the field trial campaign and determination of a measurement uncertainty and working range**. J. Environ. Monitoring, 2010, 12(3):689-95. https://doi.org/10.1039/b924955a

Eckley, C. S., Gustin, M., Lin, C. J., Li, X., & Miller, M. B. **The influence of dynamic chamber design and operating parameters on calculated surface-to-air mercury fluxes**. Atmospheric Environment, 2010, 44(2), 194-203. https://doi.org/10.1016/j.atmosenv.2009.10.013

Kocman, D., Horvat, M. **A laboratory based experimental study of mercury emission from contaminated soils in the River Idrijca catchment**. Atmos. Chem. Phys., 2010, 10, 1417–1426. https://doi.org/10.5194/acp-10-1417-2010.

Li J., Yang Y., Chen H., Xiao G., Wei S. **Sourcing contributions of gaseous mercury in indoor and outdoor air in China**. Environmental Forensics, 2010, 11(1–2), 154– 160. https://doi.org/10.1080/15275920903558919

Llanos W., Higueras P., Oyarzun R., Esbrí J. M., López-Berdonces M. A., García-Noguero E. M., Martínez-Coronado A. **The MERSADE (European Union) project: Testing procedures and environmental impact for the safe storage of liquid mercury in the Almadén district, Spain.** Sci. Total Environment, 2010, 408(20), 4901–4905. https://doi.org/10.1016/j.scitotenv.2010.05.026

2009

Pandey S. K., Kim K.-H., Yim U-H., Jung M.-C., Kang C.-H. **Airborne mercury pollution from a large oil spill accident on the west coast of Korea**. J.Hazardous Materials, 2009, 164(1), 380–384. https://doi.org/10.1016/j.jhazmat.2008.07.126

Pudasainee D., Kim J.-H., Seo Y.-C. **Mercury emission trend influenced by stringent air pollutants regulation for coal-fired power plants in Korea**. Atmospheric Environment, 2009, 43(39), 6254–6259. https://doi.org/10.1016/j.atmosenv.2009.06.007

Thoma E. D., Secrest C., Hall E. S., Lee Jones D., Shores R. C., Modrak M., Hashmonay R., Norwood P. **Measurement of total site mercury emissions from a chlor-alkali plant using ultraviolet differential optical absorption spectroscopy and cell room roof-vent monitoring**. Atmospheric Environment, 2009, 43(3), 753–757. https://doi.org/10.1016/j.atmosenv.2008.10.032

Yang Y., Chen H., Wang D. **Spatial and temporal distribution of gaseous elemental mercury in Chongqing, China**. Environmental Monitoring and Assessment, 2009, 156(1–4), 479–489. https://doi.org/10.1007/s10661-008-0499-8

2008

Ping Li, Xinbin Feng, Guangle Qiu, Lihai Shang, Shaofeng Wang. **Mercury exposure in the population from Wuchuan mercury mining area, Guizhou, China**. Science Total Environ., 2008, 395, 72 – 7 9. https://doi.org/10.1016/j.scitotenv.2008.02.006

Guanghui Li, Xinbin Feng, Guangle Qiu, Xiangyang Bi, Zhonggen Li, Cheng Zhang, Dingyong Wang, Lihai Shang, Yanna Guo. **Environmental mercury contamination of an artisanal zinc smelting area in Weining County, Guizhou, China**. Environmental Pollution, 2008, 154, 21-31. https://doi.org/10.1016/j.envpol.2007.11.012

Battke F., Ernst D., Fleischmann F., Halbach S. **Phytoreduction and volatilization of mercury by ascorbate in Arabidopsis thaliana, European beech and Norway spruce**. Applied Geochemistry, 2008, 23(3), 494–502. https://doi.org/10.1016/j.apgeochem.2007.12.023

Beaulieu H. J., Beaulieu S., Brown C. **Phenyl mercuric acetate (PMA): mercury-bearing flexible gymnasium floors in schools – evaluation of hazards and controlled abatement.** J. Occupational and Environmental Hygiene, 2008, 6, 360–366. https://doi.org/10.1080/15459620802017425

Gabriel M. C., Williamson D. **Some insight into the influence of urban ground surface properties on the air-surface exchange of total gaseous mercury**. Applied Geochemistry, 2008, 23(4), 794–806. https://doi.org/10.1016/j.apgeochem.2007.12.028

Garetano G., Stern A. H., Robson M., Gochfeld M. **Mercury vapor in residential building common areas in communities where mercury is used for cultural purposes versus a reference community**. Sci. Total Environment, 2008, 397(1–3), 131–139. https://doi.org/10.1016/j.scitotenv.2008.02.034

2007

Grover T. L., Vidich Ch., Hennessey J., Freitas J., Mueller M. D. **Mercury exposure assessment: Testing a work practice for cleaning up broken fluorescent bulbs**. Professional Safety, 2007, 12, 39–45. www.asse.org/professional-safety/indexes/2007/

Morrison M. **Exposure assessment of household mercury spills.** J. Chemical Health and Safety, 2007, 14(1), 17–21. https://doi.org/10.1016/j.jchas.2006.08.004

Araujo P.C., CASTILHOS Z.C. **Técnicas analíticas para determinação de mercúrio orgânico e inorgânico e em amostras ambientais e biológicas no LEMA/CETEM**. Jornada do Programa de Capacitação Interna do CETEM, 1, Rio de Janeiro: CETEM, 2007. http://mineralis.cetem.gov.br/handle/cetem/182

Muresan B., Cossa D., Richard S., Burban B. **Mercury speciation and exchanges at the air–water interface of a tropical artificial reservoir, French Guiana**. Sci. Total Environment, 2007, 385(1–3), 132–145. https://doi.org/10.1016/j.scitotenv.2007.06.013

Oyarzun R., Higueras P., Esbrí J. M., Pizarro J. **Mercury in air and plant specimens in herbaria: A pilot study at the MAF Herbarium in Madrid (Spain)**.Sci. Total Environment, 2007, 387(1–3), 346–352. https://doi.org/10.1016/j.scitotenv.2007.05.034

Aiuppa A., Bagnato E., Witt M. L. I., Mather T. A., Parello F., Pyle D. M., Martin R. S. **Real-time simultaneous detection of volcanic Hg and SO_2 at La Fossa Crater, Vulcano (Aeolian Islands, Sicily)**. Geophysical Research Letters, 2007, 34, L21307. https://doi.org/10.1029/2007GL030762

Azziz-Baumgartner E, Luber G, Schurz-Rogers H, Backer L, Belson M, Kieszak S, Caldwell K, Lee B, Jones R, Todd R, Rubin C. **Exposure assessment of a mercury spill in a Nevada school -- 2004**. Clin Toxicol (Phila). 2007, 45(4):391-5. https://doi.org/10.1080/15563650601031569

Wang Z., Chen Z., Duan N., Zhang X. **Gaseous elemental mercury concentration in atmosphere at urban and remote sites in China**. J. Environmental Sciences, 2007, 19(2), 176–180. https://doi.org/10.1016/S1001-0742(07)60028-X

Won J. H., Park J. Y., Lee T. G. **Mercury emissions from automobiles using gasoline, diesel, and LPG**. Atmospheric Environment, 2007, 41(35), 7547–7552. https://doi.org/10.1016/j.atmosenv.2007.05.043

Yang Y., Zhang C., Shi X., Lin T., Wang D. **Effect of organic matter and pH on mercury release from soils**. J. Environmental Sciences, 2007, 19(11), 1349–1354. https://doi.org/10.1016/S1001-0742(07)60220-4

Stone M. E., Cohen M. E., Debban B. A. **Mercury vapor levels in exhaust air from dental vacuum systems**. Dental Materials, 2007, 23(5), 527–532. https://doi.org/10.1016/j.dental.2006.03.011

2006

Ki-Hyun Kim, Vinit K. Mishra, Sungmin Hong. **The rapid and continuous monitoring of gaseous elemental mercury (GEM) behavior in ambient air**. Atmospheric Environment, 2006, 40, 3281–3293. https://doi.org/10.1016/j.atmosenv.2006.01.046

Gary Garetano, Michael Gochfeld, and Alan H. Stern. **Comparison of Indoor Mercury Vapor in Common Areas of Residential Buildings with Outdoor Levels in a Community Where Mercury Is Used for Cultural Purposes**. Environmental Health Perspectives, 2006, 114(1), 59-62. https://doi.org/10.1289/ehp.8410

Baughman Th. A. **Elemental mercury spills**. Environmental Health Perspectives, 2006, 114(2), 147-152. https://doi.org/10.1289/ehp.7048

Dingyong Wang, Lei He, Xiaojun Shi, Shiqiang Wei, Xinbin Feng. **Release flux of mercury from different environmental surfaces in Chongqing, China**. Chemosphere, 2006 64(11):1845-54. https://doi.org/10.1016/j.chemosphere.2006.01.054

Mark A. Engle, Mae Sexauer Gustin, Fraser Goff, Dale A. Counce, Cathy J. Janik, Deborah Bergfeld, James J. Rytuba. **Atmospheric mercury emissions from substrates and fumaroles associated with three hydrothermal systems in the western United States**. J Geophysical Research, 2006, 111, D17304, https://doi.org/10.1029/2005JD006563

Antonio Garcia-Sanchez, Felicia Contreras, Meliton Adams, Fernando Santos. **Airborne total gaseous mercury and exposure in a Venezuelan mining area**. Int. J Environ. Health Res., 2006, 16(5):361-73. https://doi.org/10.1080/09603120600869315

Garcia-Sanchez A, Contreras F, Adams M, Santos F. **Atmospheric mercury emissions from polluted gold mining areas (Venezuela)**. Environ Geochemistry and Health, 2006, 28(6), 529–540. https://doi.org/10.1007/s10653-006-9049-x

Spiegel S. J., Savornin O., Shoko D., Veiga M. M. **Mercury reduction in Munhena, Mozambique: homemade solutions and the social context for change**. Internat. J. Occupational and Environmental Health, 2006, 12(3), 215–221. https://doi.org/10.1179/oeh.2006.12.3.215

Wang D., He L., Shi X., Wei S., Feng X. **Release flux of mercury from different environmental surfaces in Chongqing, China**. Chemosphere, 2006, 64(11), 1845–1854. https://doi.org/10.1016/j.chemosphere.2006.01.054

2005

Battke F., Ernst D., Halbach S. **Ascorbate promotes emission of mercury vapour from plants**. Plant, Cell and Environment, 2005, 28, 1487–1495. https://doi.org/10.1111/j.1365-3040.2005.01385.x

Lindberg S.E., Southworth G.R., Bogle M.A., Blasing T.J., Owens J., Roy K., Zhang H., Kuiken T., Price J., Reinhart D., Sfeir H. **Airborne emissions of mercury from municipal solid waste. I: New measurements from six operating landfills in Florida**. J. Air & Waste Management Association, 2005, 55(7), 859–869. https://doi.org/10.1080/10473289.2005.10464684

R. Grönlund, H. Edner, S. Svanberg, J. Kotnik, M. Horvat. **Mercury emissions from the Idrija mercury mine measured by differential absorption lidar techniques and a point monitoring absorption spectrometer**. Atmospheric Environment, 2005, 39(22), 4067-4074. https://doi.org/10.1016/j.atmosenv.2005.03.027

2004

John S. Kinsey, F.R. Anscombe, Steven E. Lindberg, George R. Southworth. **Characterization of the fugitive mercury emissions at a chlor-alkali plant: overall study design**. Atmospheric Environment2004, 38, 633–641. https://doi.org/10.1016/j.atmosenv.2003.09.059

Pablo Higueras, Roberto Oyarzun, Jorge Oyarzún, Hugo Maturana, Javier Lillo, Diego Morata. **Environmental assessment of copper–gold–mercury mining in the Andacollo and Punitaqui districts, northern Chile**. Appl. Geochem., 2004, 19(11), 1855-1864. https://doi.org/10.1016/j.apgeochem.2004.04.001

Bigham G. N. **Assessment of exposure to mercury vapor in indoor air from spilled elemental mercury**. RMZ – Materials and Geoenvironment, 2004, 51(1), 587–589. www.rmz-mg.com/letniki/rmz51/rmz51_0561-0755.pdf

Hawks C., Makos K., Bell D., Wambach P. F., Burroughs G. E. **An inexpensive method to test for mercury vapor in herbarium cabinets**. Taxon. 2004, 53(3), 783–790. https://doi.org/10.2307/4135451

2003

J.T. Morgan, E. Swain, M. Allan. **Identification of atmospheric mercury sources in the Great Lakes states through an ambient monitoring program**. Minnesota Pollution Control Agency, 2003. https://www.michigan.gov/documents/deq/deq-aqd-toxics-hgfinalreport_272066_7.pdf

2002

Pogarev S., Ryzhov V., Mashyanov N., et al. **Direct measurement of the mercury content of exhaled air: a new approach for determination of the mercury dose received.** Anal Bioanal Chem., 2002, 374, 1039–1044. https://doi.org/10.1007/s00216-002-1601-7

Lindberg S. E., Zhang H., Vette A. F., Gustin M. S., Barnett M. O., Kuiken T. **Dynamic flux chamber measurement of gaseous mercury emission fluxes over soils: Part 2 – effect of flushing flow rate and verification of a two-resistance exchange interface simulation model**. Atmosph. Environ., 2002, 36(5), 847–859. https://doi.org/10.1016/S1352-2310(01)00502-7

2000

Špirić Z., Mashyanov N. R. **Mercury measurements in ambient air near natural gas processing facilities.** Fresenius Journal of Analytical Chemistry, 2000, 366(5), 429–432. https://doi.org/10.1007/s002160050087

1997

Gosar M., Pirc S., Mashyanov N. R., Šajn R., Bidovec M., Mashyanov N. R., Sholupov S. E. **Distribution of mercury in atmosphere over Idrija, Slovenia**. Environmental Geochemistry and Health, 1997, 19(3), 101–112. https://doi.org/10.1023/A:1018402605831

1995

Mashyanov N. R., Reshetov V. V. **Geochemical ecological monitoring using remote sensing technique.** Sci. Total Environ., 1995, 159(2–3), 169–175. https://doi.org/10.1016/0048-9697(95)04324-T

1994

Gruntorád J., Ilyin Yu. T., Mashyanov N. R., et al. **Prvé zkusenosti s mercurometrickim monitorováním z pohiblivého stanovise na území České Republiky** Uhlí, Rudy, Geologický Průzkum, 1994. 12, 1–9.

1992

Miko, S., Durn, G., Palinkaš, A.L., Mashyanov, N., Namjesnik, K., Ilyin, Y. **Distribution of mercury, and aerosols of lead and cadmium in the atmosphere of Zagreb**. Min. Metali. Quart, Ljubljana 1992, 39, 369-387, 3-4

1990

Palinkaš A. L., Sholupov S., Mashyanov N., Durn G., Miko S. **Mercury in atmosphere over rural, urban and industrial parts of Zagreb City.** Rudarsko-Geološko-Naftni Zbornik. Zagreb, 1990, 2, 19–27. http://hrcak.srce.hr/file/38906

Artisanal Gold Mining

2026

Gonzalez-Valoys, A. C., Segundo, F., Zambrano-Anchundia, J. L., Jiménez-Oyola, S., Gallego, J. R., García-Ordiales, E., ... & Higueras, P. **Assessment of Soil Contaminants and Human Health Risks in the Petaquilla Mine (Panama): Implications for Site Restoration**. Minerals, 2026, 16(5), 522. https://doi:10.3390/min16050522

da Silveira Tortolero Araujo Lourenço, M., Debruyne, D., Di Maggio, R. M., Germinario, C., Grifa, C., Izzo, F., ... & Mercurio, M. **Legacy and Ongoing Mercury Contamination in Soils from ASGM Sites in the Tapajós Gold Province, Pará, Brazil**. Soil and Sediment Contamination: An International Journal, 2026, 1-31. https://doi:10.1080/15320383.2026.2693904

2025

da Silveira Tortolero Araujo Lourenço, M., Debruyne, D., Di Maggio, R. M., Germinario, C., Grifa, C., Izzo, F., ... & Mercurio, M. **Legacy and Ongoing Mercury Contamination in Soils from ASGM Sites in the Tapajós Gold Province, Pará, Brazil**. Soil and Sediment Contamination: An International Journal, 2026, 1-31. https://doi:10.1080/15320383.2026.2693904

Elvira, M. V., Diwa, R., Deocaris, C. C., Lorenzo, J., Jumawan, J., & Belo, L. P. **Mercury pollution from artisanal and small-scale gold mining (ASGM) and its impacts on health risks associated with the consumption of mangrove clam Polymesoda erosa from Butuan Bay, Philippines**. SSRN, 2025. https://doi:10.2139/ssrn.5548032

Caraballo-Laza, M. J., Ossa-Henao, D. M., Urango-Cardenas, I., Rosso-Pinto, M., Guimarães, J. R. D., Paternina-Uribe, R., ... & Marrugo-Negrete, J. **Composting as a Sustainable Approach for Managing Mercury-Contaminated Aquatic Biomass**. Toxics, 2025, 13(7), 553. https://doi:10.3390/toxics13070553

Ramirez-Ortiz, J., Duran-Izquierdo, M., Sierra-Marquez, L., & Olivero-Verbel, J. **Evaluation of Mercury Contamination in Chickens (Gallus gallus) and Soils in an Artisanal Gold Mining Area in San Martin De Loba, Bolivar, Colombia**. Bulletin of Environmental Contamination and Toxicology, 2025, 115(3), 41. https://doi:10.1007/s00128-025-04096-9

Asamoah, B. D., Yevugah, L. L., Borquaye, L. S., Dodd, M., & Darko, G. **Receptor modeling, ecological risks, and human health impacts of mercury in some Ghanaian topsoils due to mining and commercial activities**. Environmental Toxicology and Chemistry, 2025, vgaf054. https://doi:10.1093/etojnl/vgaf054

Javier, G. B., Juan, V. V., Margareth, D. I., Lucellys, S. M., & Jesus, O. V. **Environmental pollution by mercury and trace metals in highly vulnerable afro-descendant territories in the Department of Cauca, Colombia**. Soil and Sediment Contamination: An International Journal, 2025, 34(3), 510-527. https://doi:10.1080/15320383.2024.2359067

Gomez, F. H., Collivignarelli, M. C., Bellazzi, S., Torres, K. C., Sorlini, S., & Vaccari, M. **Mercury removal from mining wastewater by bioaccumulation and thermal separation in Eichhornia crassipes**. Environmental Science and Pollution Research, 2025, 32(2), 798-810. https://doi:10.1007/s11356-024-35770-w

2024

Sarpong, L., Boadi, N. O., Nimako, C., Bortey–Sam, N., & Akoto, O. **Contamination, health risk assessment, and spatial distribution of heavy metals in soils from gold mining district, Ghana**.

International Journal of Environmental Science and Technology, 2024, 1-24. https://doi:10.1007/s13762-024-06173-8

Myagkaya, I.N., Saryg-Ool, B. O.Y., Kirichenko, I.S., Gustaytis, M.A., & Lazareva, E.V. **Environmental and human health risk assessment of soils in areas of ore mineralization and past gold-mining activity**. Environmental Science and Pollution Research, 2024, 1-23. https://doi:10.1007/s11356-024-34242-5

Gomez, F. H., Pelegri, N., Lopez, J. G., Torres, K. C., & Vaccari, M. **Impact of Artisanal Gold Mining in Community Conserved Areas with High Biodiversity Using a Multi-Criteria Approach: A Case Study in Colombia**. Pollutants, 2024, 4(2), 276-290. https://doi:276-290.10.3390/pollutants4020018

Quintarelli, J. M., Garnier, J., de Souza, J. P. R., de Sousa Tonhá, M., Barral, U. M., Roig, H. L., ... & Souza, J. R. **Mercury in river samples with artisanal and small-scale gold mining influence: The case of the upper Madeira River Basin (Brazil/Bolivia)**. Journal of South American Earth Sciences, 2024, 145, 105070. https://doi:10.1016/j.jsames.2024.105070

Resta, G., Santos, P., Monteiro, M., Melo, R., Carvalho, M., Carvalho, A., ... & Flores, D. **Once Upon a Mine: Hg Soil Contamination Surrounding a Former Sb-Au Mining Area in Northern Portugal**. Available at SSRN 4852974.

de Souza, J.P.R.; Garnier, J.; Quintarelli, J.M.; de Sousa Tonhá, M.; Roig, H.L.; Seyler, P.; de Souza, J.R. **Adapted Sequential Extraction Protocol to Study Mercury Speciation in Gold Mining Tailings: Implications for Environmental Contamination in the Amazon**. Toxics, 2024, 12, 326. https://doi.org/10.3390/toxics12050326

Castilhos, Z.C., & Domingos, L.M.B. **A picture of artisanal and small-scale gold mining (ASGM) in Brazil and its mercury emissions and releases**. Environmental Geochemistry and Health, 2024, 46(3), 1-19. https://doi.org/10.1007/s10653-024-01881-z

2023

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2023, 45, 3555–3565. https://doi.org/10.1007/s10653-022-01441-3

Aliprandini, P., Junior, A.B.B., Veiga, M.M., Marshall, B.G., Scarazzato, T., & Espinosa, D.C.R. **Evaluation of biosorbents as an alternative for mercury cyanide removal from aqueous solution**. Minerals Engineering, 2023, 204, 108431. https://doi.org/10.1016/j.mineng.2023.108431

2022

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2022, 1-11. https://doi.org/10.1007/s10653-022-01441-3

Caballero-Gallardo, K., Palomares-Bolaños, J. & Olivero-Verbel, J. **Mercury Concentrations in Water, Sediments, Soil, and Fish Around Ancestral Afro-Descendant Territories Impacted by Gold Mining in the Cauca Department, Colombia**. Water Air Soil Pollut., 2022, 233, 393. https://doi.org/10.1007/s11270-022-05779-3

Gyamfi, O., Wireko-Gyebi, R.S., Ansah, E. et al. **Assessment and Awareness of Health Risks Posed by Mercury in Artisanal Gold Mining in the Ashanti Region of Ghana**. Chemistry Africa, 2022, 5, 1765–1775. https://doi.org/10.1007/s42250-022-00453-x

Udodenko, Y.G., Robinson, C.T., Choijil, J. et al. **Mercury levels in sediment, fish and macroinvertebrates of the Boroo River, northern Mongolia, under the legacy of gold mining**. Ecotoxicology, 2022. https://doi.org/10.1007/s10646-021-02502-6

Myagkaya, I. N., Gustaytis, M. A., Saryg-ool, B. Y., & Lazareva, E. V. **Mercury Partitioning and Behavior in Streams and Source Areas Affected by the Novo-Ursk Gold Sulfide Tailings (West Siberia, Russia)**. Mine Water and the Environment, 2022, 1-21. https://doi.org/10.1007/s10230-022-00859-6

A. Loria, Y.R. Ramos-Arroyo, D. Rocha, et al. **Widespread elevated concentrations of gaseous elemental mercury in Guanajuato, Mexico, centuries after historical silver refining by mercury amalgamation**. Science of the Total Environment, 2022. https://doi.org/10.1016/j.scitotenv.2022.157093

2021

González-Valoys AC, Esbrí JM, Campos JA, Arrocha J, García-Noguero EM, Monteza-Destro T, Martínez E, Jiménez-Ballesta R, Gutiérrez E, Vargas-Lombardo M, Garcia-Ordiales E, García-Giménez R, García-Navarro FJ, Higueras P. **Ecological and Health Risk Assessments of an Abandoned Gold Mine (Remance, Panama): Complex Scenarios Need a Combination of Indices**. Internat. J. Environ. Research and Public Health, 2021, 18(17), 9369. https://doi.org/10.3390/ijerph18179369

Marshall, B.G.; Camacho, A.A.; Jimenez, G.; Veiga, M.M. **Mercury Challenges in Mexico: Regulatory, Trade and Environmental Impacts**. Atmosphere, 2021, 12(57). https://doi.org/10.3390/atmos12010057

Morton Bermea, O., Castro-Larragoitia, J., Arellano Álvarez, Á.A. et al. **Mercury in Blood of Children Exposed to Historical Residues from Metallurgical Activity**. Exposure and Health, 2021. https://doi.org/10.1007/s12403-021-00382-z

Medina Pérez, O.M., Flórez-Vargas, O., Rincón Cruz, G. et al. **Glutathione-related genetic polymorphisms are associated with mercury retention and nephrotoxicity in gold-mining settings of a Colombian population**. Sci Rep., 2021, 11, 8716. https://doi.org/10.1038/s41598-021-88137-3

González-Valoys, A.C., Jiménez Salgado, J.U., Rodríguez, R. et al. **An approach for evaluating the bioavailability and risk assessment of potentially toxic elements using edible and inedible plants—the Remance (Panama) mining area as a model**. Environ Geochem Health, 2021. https://doi.org/10.1007/s10653-021-01086-8

Opoku Gyamfi, Peter Borgen Sørensen, Godfred Darko, Eugene Ansah, Katrin Vorkamp, Jesper Leth Bak. **Contamination, exposure and risk assessment of mercury in the soils of an artisanal gold mining community in Ghana**. Chemosphere, 2021, 267, 128910. https://doi.org/10.1016/j.chemosphere.2020.128910

A. Loria. **Mercury in Historical Silver Refining Wastes in Guanajuato, Mexico**. Master's thesis. https://mspace.lib.umanitoba.ca/handle/1993/36005

2020

Keegan H. Moody, Kazi M. Hasan, Sumeja Aljic, Victoria M. Blakeman, L. Perry Hicks, Danielle C. Loving, Matthew E. Moore, B. Spencer Hammett, Mónica Silva-González, Caryn S. Seney, Adam M. Kiefer. **Mercury emissions from Peruvian gold shops: Potential ramifications for Minamata compliance in artisanal and small-scale gold mining communities**. Environmental Research, 2020, 182, 109042. https://doi.org/10.1016/j.envres.2019.109042

Opoku Gyamfi, Peter Borgen Sorenson, Godfred Darko, Eugene Ansah, Jesper Leth Bak. **Human health risk assessment of exposure to indoor mercury vapour in a Ghanaian artisanal small-scale gold mining community**. Chemosphere,2020, 241, 125014. https://doi.org/10.1016/j.chemosphere.2019.125014

Samantha T. Brown, Kazi M. Hasan, Keegan H. Moody, Danielle C. Loving, Kathryn E. Howe, Alaina G. Dawson, Kevin Drace, Jeffrey D. Hugdahl, Caryn S. Seney, Claudia M. Vega, Luis E. Fernandez, Adam M. Kiefer. **Method for mapping Hg0 emissions from gold shops in artisanal and small-scale gold mining communities.** MethodsX, 7, 2020, 101060. https://doi.org/10.1016/j.mex.2020.101060.

2018

Leobardo Rocha-Román, Jesús Olivero-Verbel, Karina Rocío Caballero-Gallardo. **Impacto de la minería del oro asociado con la contaminación por mercurio en suelo superficial de San Martín de Loba, Sur de Bolívar (Colombia).** Rev. Int. Contam. Ambie., 2018, 34 (1), 93-102. https://doi.org/10.20937/RICA.2018.34.01.08

Yuber Palacios-Torres, Karina Caballero-Gallardo, Jesus Olivero-Verbel. **Mercury pollution by gold mining in a global biodiversity hotspot, the Choco biogeographic region, Colombia**. Chemosphere, 2018, 193, 2018, 421-430. https://doi.org/10.1016/j.chemosphere.2017.10.160

2017

Rodríguez L. H. S., Rodríguez-Villamizar L. A., Flórez-Vargas O., Fiallo, Y. V., Ordoñez Á., del Carmen Gutiérrez M. **No effect of mercury exposure on kidney function during ongoing artisanal gold mining activities in Colombia: A cross-sectional study**. Toxicology and Industrial Health, 2017, 33(1), 67–78. https://doi.org/10.1177/0748233716659031

P. Schutzmeier, U. Berger, S. Bose-O'Reilly. **Gold Mining in Ecuador: A Cross-Sectional Assessment of Mercury in Urine and Medical Symptoms in Miners from Portovelo/Zaruma**. Int. J. Environ. Res. Public Health, 2017, 14(1), 34. https://doi.org/10.3390/ijerph14010034

2016

Bose-O'Reilly S., Schierl R., Nowak D., Siebert U., William J. F., Owi F. T., Ir Y. I. **A preliminary study on health effects in villagers exposed to mercury in a small-scale artisanal gold mining area in Indonesia**. Environ. Research, 2016, 149, 274–281. https://doi.org/10.1016/j.envres.2016.04.007

Marieke Heemskerk, Eric Negulic and Celine Duijves. **Reducing the Use and Release of Mercury by Artisanal and Small Scale Gold Miners in Suriname. Review of the Suriname ASGM sector**. 2016. http://social-solutions.net/data/images/reports/Suriname_ASGM_Sector_Report_Final.pdf

2015

Ardiana Ekawanti, Baiq Dewi Krisnayanti. **Effect of Mercury Exposure on Renal Function and Hematological Parameters among Artisanal and Small-scale Gold Miners at Sekotong, West Lombok, Indonesia**. Journal of Health and Pollution, 2015, 5(9), 25–32. https://doi.org/10.5696/2156-9614-5-9.25

Oseas García, Marcello M. Veiga, Paul Cordy, Osvaldo E. Suescún, Jorge Martin Molina, Monika Roeser. **Artisanal gold mining in Antioquia, Colombia: a successful case of mercury reduction**. J. Cleaner Production, 2015, 90, 244-252. https://doi.org/10.1016/j.jclepro.2014.11.032

Cordy, P., Veiga, M., Bernaudat, L., & Garcia, O. **Successful airborne mercury reductions in Colombia**. Journal of Cleaner Production, 2015, 108, 992–1001. https://doi.org/10.1016/j.jclepro.2015.06.102

Sánchez Rodríguez L. H., Flórez-Vargas O., Rodríguez-Villamizar L. A., Vargas Fiallo Y., Stashenko E. E., Ramírez G. **Lack of autoantibody induction by mercury exposure in artisanal gold mining settings in Colombia: Findings and a review of the epidemiology literature.** Journal of Immunotoxicology, 2015, 12(4). https://doi.org/10.3109/1547691X.2014.986591

2014

Higueras P., Oyarzun, R., Kotnik J., Esbrí J. M., Martínez-Coronado A., Horvat M., López-Berdonces M. A., Llanos W., Vaselli O., Nisi B., Mashyanov N., Ryzov R., Spiric Z., Panichev N., McCrindle R., Feng X., Fu X., Lillo J., Loredo J., García M. E., Alfonso P., Villegas K., Palacios S., Oyarzún J., Maturana H., Contreras F., Adams M., Ribeiro-Guevara S., Niecenski L. P., Giammanco S., Huremović J. **A compilation of field surveys on gaseous elemental mercury (GEM) from contrasting environmental settings in Europe, South America, South Africa and China: separating fads from facts.** Environ Geochem and Health. 2014, 36(4). 713–734. https://doi.org/10.1007/s10653-013-9591-2

Jesús Olivero-Verbel, Fredys Young-Castro, Karina Caballero-Gallardo. **Contaminación por mercurio en aire del distrito minero de San Martín de Loba en el departamento de Bolívar, Colombia**. Rev. Int. Contam. Ambie., 2014, 30 (1), 7-13. ISSN 0188-4999

Laperche V, Hellal J, Maury-Brachet R, et al. **Regional distribution of mercury in sediments of the main rivers of French Guiana (Amazonian basin)**. Springerplus, 2014, 3, 322. https://doi.org/10.1186/2193-1801-3-322

Peplow, D., & Augustine, S. **Neurological abnormalities in a mercury exposed population among indigenous Wayana in Southeast Suriname**. Environmental Science: Processes & Impacts, 2014, 16(10), 2415-2422. https://doi.org/10.1039/C4EM00268G

2012

Peplow D, Augustine S. **Community-Led Assessment of Risk from Exposure to Mercury by Native Amerindian Wayana in Southeast Suriname**. J Environ Public Health, 2012; 674596. https://doi.org/10.1155/2012/674596

Drace K., Kiefer A.M., Veiga M.M., Williams M.K., Ascari B., Knapper K.A., Logan K.M., Breslin V.M., Skidmore A., Daniel A. Bolt, Grant Geist, Reidy L., Cizdziel J. V. **Mercury-free, small-scale artisanal gold mining in Mozambique: utilization of magnets to isolate gold at clean tech mine**. J. Cleaner Production., 2012, 88–95. https://doi.org/10.1016/j.jclepro.2012.03.022

Higueras P., Llanos W., García M. E., Millán R., Serrano C. **Mercury vapor emissions from the Ingenios in Potosí (Bolivia)**. J. Geochemical Exploration, 2012, 116, 1–7. https://doi.org/10.1016/j.gexplo.2011.05.004

Krisnayanti B. D., Anderson C. W. N., Utomo W. H., Feng X., Handayanto E., Mudarisna N., Ikram H., Khususiah. **Assessment of environmental mercury discharge at a four-year-old artisanal gold mining area on Lombok Island, Indonesia.** J. Environmental Monitoring, 2012, 14(10), 2598–2607. https://doi.org/10.1039/C2EM30515A

2011

Ricardo Cesar, Silvia Egler, Helena Polivanov, Zuleica Castilhos, Ana Paula Rodrigues. **Mercury, copper and zinc contamination in soils and fluvial sediments from an abandoned gold mining area in southern Minas Gerais State, Brazil**. Environ Earth Sci., 2011, 64, 211–222. https://doi.org/10.1007/s12665-010-0840-8

González-Carrasco V., Velasquez-Lopez P. C., Olivero-Verbel J., Nerlis Pájaro-Castro N. **Air mercury contamination in the gold mining town of Portovelo, Ecuador**. Bulletin of Environmental Contamination and Toxicology, 2011, 87(3), 250–253. https://doi.org/10.1007/s00128-011-0345-5

Patricio C. Velásquez-López, Marcelo M. Veiga, Bern Klein, Janis A. Shandro, Ken Hall. **Cyanidation of mercury-rich tailings in artisanal and small-scale gold mining: identifying strategies to manage environmental risks in Southern Ecuador**. Journal of Cleaner Production, 2011, 19, 1125-1133. https://doi.org/10.1016/j.jclepro.2010.09.008

Paul Cordy, Marcello M. Veiga, Ibrahim Salih, Sari Al-Saadi, Stephanie Console, Oseas Garcia, Luis Alberto Mesa, Patricio C. Velásquez-López, Monika Roeser. **Mercury contamination from artisanal gold mining in Antioquia, Colombia: The world's highest per capita mercury pollution**. Science of the Total Environment2011, 410-411, 154–160. https://doi.org/10.1016/j.scitotenv.2011.09.006

Cordy P., Veiga M., Crawford B., Garcia O., Gonzalez V., Moraga D., Roeser M., Wip D. **Characterization, mapping, and mitigation of mercury vapour emissions from artisanal mining gold shops**. Environmental Research, 2013, 125, 82-91. https://doi.org/10.1016/j.envres.2012.10.015

Jennifer Baeuml, Stephan Bose-O'Reilly, Beate Lettmeiea, Alexandra Maydl, Katalin Messerer, Gabriele Roider, Gustav Drasch, Uwe SiebertInternat. **Applicability of two mobile analysers for mercury in urine in small-scale gold mining areas**. Journal of Hygiene and Environmental Health2011, 215, 64– 67. https://doi.org/10.1016/j.ijheh.2011.06.005

C.S. Eckley, M. Gustin, F. Marsik, M.B. Miller. **Measurement of surface mercury fluxes at active industrial gold mines in Nevada (USA).** Science of the Total Environment, 2011, 409, 514–522. https://doi.org/10.1016/j.scitotenv.2010.10.024

2010

Bose-O'Reilly S., Drasch G., Beinhoff C., Rodrigues-Filho S., Roider G., Lettmeier B., Maydl A., Maydl S., Siebert U. **Health assessment of artisanal gold miners in Indonesia**. Sci. Total Environment, 2010, 408(4), 713–725. https://doi.org/10.1016/j.scitotenv.2009.10.070

Bose-O'Reilly S., Drasch G., Beinhoff C., Tesha A., Drasch K., Roider G., Taylor H., Appleton D., Siebert U. **Health assessment of artisanal gold miners in Tanzania**. Sci. Total Environment, 2010, 408(4), 796–805. https://doi.org/10.1016/j.scitotenv.2009.10.051

Velásquez-López P. C., Veiga M. M., Hall K. **Mercury balance in amalgamation in artisanal and small-scale gold mining: identifying strategies for reducing environmental pollution in Portovelo-Zaruma, Ecuador**. J. Cleaner Production, 2010, 18(3), 226–232. https://doi.org/10.1016/j.jclepro.2009.10.010

2009

Shandro J. A., Veiga M. M., Chouinard R. **Reducing mercury pollution from artisanal gold mining in Munhena, Mozambique**. J. Cleaner Production, 2009, 17(5), 525–532. https://doi.org/10.1016/j.jclepro.2008.09.005

2008

Bose-O'Reilly S., Lettmeier B., Matteucci Gothe R., Beinhoff Chr., Siebert U., Drasch G. **Mercury as a serious health hazard for children in gold mining areas**. Environmental Research, 2008, 107(1), 89–97. https://doi.org/10.1016/j.envres.2008.01.009

Bose-O'Reilly S., Lettmeier B., Roider G., Siebert U., Drasch G. **Mercury in breast milk – A health hazard for infants in gold mining areas**. Internat. J. Hygiene and Environmental Health, 2008, 211(5–6), 615–623. https://doi.org/10.1016/j.ijheh.2007.09.015

Guanghui Li, Xinbin Feng, Guangle Qiu, Xiangyang Bi, Zhonggen Li, Cheng Zhang, Dingyong Wang, Lihai Shang, Yanna Guo. **Environmental mercury contamination of an artisanal zinc smelting area in Weining County, Guizhou, China**. Environmental Pollution, 2008, 154, 21-31. https://doi.org/10.1016/j.envpol.2007.11.012

2007

Peplow D, Augustine S. **Community-directed risk assessment of mercury exposure from gold mining in Suriname**. Rev Panam Salud Publica. 2007, 22(3):202–10. https://doi.org/10.1590/s1020-49892007000800007

IRIS-PAHO-WHO. **Community-directed risk assessment of mercury exposure from gold mining in Suriname**. https://iris.paho.org/handle/10665.2/7781

2006

Feng X., Dai Q., Qiu G., Li G., He L., Wang D. **Gold mining related mercury contamination in Tongguan, Shaanxi Province, PR China**. Applied Geochemistry, 2006, 21(11), 1955–1968. https://doi.org/10.1016/j.apgeochem.2006.08.014

Garcia-Sanchez A, Contreras F, Adams M, Santos F. **Airborne total gaseous mercury and exposure in a Venezuelan mining area**. Internat. J. Environmental Health Research, 2006, 16(5), 361–373. https://doi.org/10.1080/09603120600869315

Garcia-Sanchez A, Contreras F, Adams M, Santos F. **Atmospheric mercury emissions from polluted gold mining areas (Venezuela)**. Environ Geochemistry and Health, 2006, 28(6), 529–540. https://doi.org/10.1007/s10653-006-9049-x

Spiegel S. J., Savornin O., Shoko D., Veiga M. M. **Mercury reduction in Munhena, Mozambique: homemade solutions and the social context for change**. Internat. J. Occupational and Environmental Health, 2006, 12(3), 215–221. https://doi.org/10.1179/oeh.2006.12.3.215

Marcello M. Veiga, Stephen M. Metcalf, Randy F. Baker, et al. **Manual for Training Artisanal and Small-Scale Gold Miners**. Project EG/GLO/01/G34, UNIDO, 2006, 144 p.

2005

Marcello M. Veiga, Dario Bermudez, Heloisa Pacheco-Ferreira, Luiz Roberto Martins Pedroso, Aaron J. Gunson, Gilberto Berrios, Ligia Vos, Pablo Huidobro, Monika Roeser. **Mercury Pollution from Artisanal Gold Mining in Block B, El Callao, Bolívar State, Venezuela**. In: Dynamics of mercury pollution on regional and global scales: Atmospheric processes and human exposures around the world. N. Pirrone &;K. Mahaffey (Eds),2005, 421-450. ISBN: 0-387-24493-X. https://doi.org/10.1007/b105709

2004

M. Veiga, R.F. Baker. **Protocols for Environmental and Health Assessment of Mercury Released by Artisanal and Small-Scale Gold Miners**. Vienna, Austria: GEF/UNDP/UNIDO, 2004, 294 p. ISBN 92-1-106429-5

Global Mercury Project. UNIDO. GMP News, n. 04, March 2004. www.globalmercury.org

Global Mercury Project. UNIDO. GMP News, n. 05, December 2004. www.globalmercury.org

Higueras P., Oyarzun R., Oyarzún J., Maturana H., Lillo J., Diego Morata D. **Environmental assessment of copper–gold–mercury mining in the Andacollo and Punitaqui districts, Northern Chile**. Applied Geochemistry. 2004, 19(11), 1855–1864. https://doi.org/10.1016/j.apgeochem.2004.04.001

Biomonitoring

2026

Monteiro, L. C., Costa, F. J. V., de Carvalho, C. B. V., Júnior, A. S., Duar, B. A., & Bernardi, J. V. E. **Mercury contamination imported shark meat ("cação") and implications for human exposure in Brazil**. Regional Studies in Marine Science, 2026, 105214. doi:10.1016/j.rsma.2026.105214

Sarah E. Rothenberg, Eric Johnson, Jane LaDu, Lindsey St. Mary, Jay C. Adams, Kate Rice, Brian P. Jackson, Robyn L. Tanguay, Lisa Truong. **Zebrafish parental co-exposure to environmentally relevant levels of inorganic arsenic+ methylmercury impacts neurobehavior in parents and progeny**. Environmental toxicology and pharmacology, 2026, 104970. doi:10.1016/j.etap.2026.104970

Sun, X., Li, H., Wu, C., Xiong, B., Qu, X., Song, X., ... & Ma, M. **Hormesis and chelation pathway shifts govern dose-segmented Hg0 detoxification in Spanish moss**. Environmental Chemistry and Ecotoxicology, 2026. doi:10.1016/j.enceco.2026.05.012

Monteiro, L. C., Campos, T. N. D. S., Santos, V. C. D. S., Santos, L. J. S., Couto, D., Almeida, C. P. D., ... & Vieira, L. C. G. **A Snapshot of Species Composition and Mercury Bioaccumulation in Fish from Natural and Constructed Wetlands**. Fishes, 11(3), 2026, 176. doi:10.3390/fishes11030176

Monteiro, L. C., Caparroz, R., Junqueira, M. L., Vogeley, P. H., Vieira, L. C. G., & Bernardi, J. V. E. **Screening of Mercury Bioaccumulation in Birds (Passeriformes) from a Major Wetland of the Brazilian Cerrado**. Bulletin of Environmental Contamination and Toxicology, 2026, 116(2), 36. doi:10.1007/s00128-026-04186-2

Gustaytis, M., Maltsev, A., Leonova, G., & Krivonogov, S. **Mercury species in zooplankton, brine, and bottom sediments of Hyperhaline Lake Bolshoye Yarovoye (South of Western Siberia)**. Environmental Earth Sciences, 85(1), 32. doi:10.1007/s12665-025-12735-x

Barquero, J. I., Higueras, P., Esbrí, J. M., Jaeger, J. L., & García-Ordiales, E. **Evaluation of the new role of the invasive species (Procambarus clarkii) as an environmental indicator in polluted watersheds**. Environmental Geochemistry and Health, 2026, 48(2), 82. doi:10.1007/s10653-025-02953-4

2025

Elvira, M. V., Diwa, R., Deocaris, C. C., Lorenzo, J., Jumawan, J., & Belo, L. P. **Mercury pollution from artisanal and small-scale gold mining (ASGM) and its impacts on health risks associated with the consumption of mangrove clam Polymesoda erosa from Butuan Bay, Philippines**. SSRN, 2025. doi:10.2139/ssrn.5548032

Gremyachikh, V. A., Komov, V. T., Ivanov, E. A., Mordvintsev, I. N., Naidenko, S. V., Platonov, N. G., ... & Rozhnov, V. V. **Total Mercury and Stable Nitrogen and Carbon Isotope Content in Polar Bear Hair in the Russian Arctic**. Russian Journal of Ecology, 2025, 56(4), 366-374. doi:10.1134/S1067413625600727

Caraballo-Laza, M. J., Ossa-Henao, D. M., Urango-Cardenas, I., Rosso-Pinto, M., Guimarães, J. R. D., Paternina-Uribe, R., ... & Marrugo-Negrete, J. **Composting as a Sustainable Approach for Managing Mercury-Contaminated Aquatic Biomass**. Toxics, 2025, 13(7), 553. doi:10.3390/toxics13070553

Ramirez-Ortiz, J., Duran-Izquierdo, M., Sierra-Marquez, L., & Olivero-Verbel, J. **Evaluation of Mercury Contamination in Chickens (Gallus gallus) and Soils in an Artisanal Gold Mining Area in San Martin De Loba, Bolivar, Colombia**. Bulletin of Environmental Contamination and Toxicology, 2025, 115(3), 41. doi:10.1007/s00128-025-04096-9

Gao, Y., Xiong, B., Huang, X., Sun, X., Du, H., & Ma, M**. Liquiritin and L-Dopa mitigate gaseous elemental mercury toxicity in *Tillandsia usneoides*: Insights into metabolic reprogramming and phytoremediation potential**. Journal of Hazardous Materials, 2025, 139237. doi:10.1016/j.jhazmat.2025.139237

Power, S., Minet, A., Ku, P., Sexton, A., Matson, P. G., Marquardt, J. P., ... & Stevenson, L. M. **The Efficacy and Ecological Impact of Mercury Sorbents on the Physiology and Reproductive Fitness of Daphnia Magna**. 2025, Available at SSRN 5249675. doi:10.2139/ssrn.5249675

Ivanova, E. S., Udodenko, Y. G., Tropin, N. Y., Borisov, M. Y., Rumiantseva, O. Y., Bazhenova, D. E., & Komov, V. T. **Effect of age-related dietary changes on mercury accumulation in European perch (Perca fluviatilis) in a large mesotrophic lake in the taiga zone (Northwestern Russia)**. Ecotoxicology, 2025, 1-9. doi:10.1007/s10646-025-02886-9

Barquero, J. I., Hidalgo, J. J., Esbrí, J. M., Higueras, P., & García-Ordiales, E. **A preliminary assessment of mercury, methylmercury and other potentially toxic elements in largemouth bass (Micropterus salmoides) from the Almadén mining district**. Environmental Geochemistry and Health, 2025, 47(1), 27. doi:10.1007/s10653-024-02326-3

Mock, A. J., Virzi, T., Reed, T. A., Rothenberg, S. E., Rodríguez-Jorquera, I., Trexler, J. C., & Frederick, P. **Mercury exposure in an endangered songbird: influence of marsh hydrology and evidence for early breeding impairment**. Ecotoxicology, 2025, 1-16. doi:10.1007/s10646-025-02851-6

Frimpong, E., Ankapong, E., Boakye, K. O., Ansah, E., Gyamfi, O., Barnes, B., ... & Darko, G. **Uptake and in-vitro bioaccessibility of toxic metals in cocoa beans: Human health risks**. Environmental Geochemistry and Health,2025, 47(2), 33. doi:10.1007/s10653-024-02345-0

Li, P., Du, B., Feng, L., & Feng, X. **Human Health Risks Associated with Rice Consumption**. In Methylmercury Accumulation in Rice, 2025, 42-87. CRC Press. doi:10.1201/9781003404941

Cao, F., Sun, R., Schneider, L., Zhang, Y., Li, S., Yan, R., ... & Liu, Y. **A digestion-purging-trapping method for precise stable mercury isotope measurements of natural carbonates**. Journal of Analytical Atomic Spectrometry, 2025, 40(5), 1373-1382. doi:10.1039/D5JA00063G

2024

Meloni, F., Calabrese, S., Vaselli, O., Capecchiacci, F., Ciani, F., Brusca, L., ... & Cabassi, J. **Active moss biomonitoring of mercury in the mine-polluted area of Abbadia San Salvatore (Mt. Amiata, Central Italy)**. Toxics, 2024, 13(1), 2. doi:10.3390/toxics13010002

Rimsa, A., Abola, A., Veilande, R., Brike, Z., Revalde, G., Skudra, A., & Strazds, M. **The characterisation of mercury pollution in the faeces of Baltic region breeding black storks**. Journal of Hazardous Materials Advances, 2024, 16, 100499. doi:10.1016/j.hazadv.2024.100499

Bauštein, M., Száková, J., Stefanović, L., Najmanová, J., Sysalová, J., & Tlustoš, P. **Assessment of Mercury Uptake by Plants in Former Cinnabar Mining Areas**. Minerals, 2024, 14(12), 1211. doi:10.3390/min14121211

Krylov, V. V., Golovanova, I. L., Filippov, A. A., Osipova, E. A., & Kulivatskaya, E. A. **Effects of mercury and magnetic fields on the activity of proteinases and glycosidases in the intestine of common carp Cyprinus carpio**. Environmental Monitoring and Assessment, 2024, 196(11), 1-12. doi:10.1007/s10661-024-13274-x

Geeza, T. J., Stevenson, L. M., & Mathews, T. J. **Uptake, Efflux, and Sequestration of Mercury in the Asian Clam, Corbicula fluminea, at Environmentally Relevant Concentrations, and the Implications for Mercury Remediation**. Water, 2024, 16(20), 2931. doi:10.3390/w16202931

Gomez, F. H., Pelegri, N., Lopez, J. G., Torres, K. C., & Vaccari, M. **Impact of Artisanal Gold Mining in Community Conserved Areas with High Biodiversity Using a Multi-Criteria Approach: A Case Study in Colombia**. Pollutants, 2024, 4(2), 276-290. doi:4(2), 276-290.10.3390/pollutants4020018

Man, Y., Wang, B., Wang, J., Cai, K., Rinklebe, J., Zhang, L., & Feng, X. **New Insights into MeHg Accumulation in Rice (Oryza sativa L.): Evidence from Cysteine**. Environmental Science & Technology, 2024, 58(13), 5942-5951. doi:10.1021/acs.est.3c08385

Li, P., Du, B., Feng, L., & Feng, X. (2024). HUMAN METHYLMERCURY EXPOSURE VIA RICE CONSUMPTION. Methylmercury Accumulation in Rice: Process and Regulation, 42.Udodenko, Y.G., Solovyeva, M.A., Glazov, D. M., Klimov, F.V., Komov, V.T., Kamshilova, T.B., & Rozhnov, V.V. **Total mercury in fur, whiskers and whole blood of Caspian seals (Pusa capsica) from north-east of Caspian Sea (Kazakhstan)**. Marine Pollution Bulletin, 2024, 205, 116605.

Rodríguez, R., Garcia-Gonzalez, H., Hernández, Z., & Sanmiquel, L. **Tackling Arsenic and Mercury Contamination: Implications for Sustainable Mining and Occupational Health Risks**. Sustainability, 2024, 16(10), 4027. https://doi.org/10.3390/su16104027

Gačnik J., Živković, I., Kotnik J., Božič D., Tassone A., Naccarato A., ... & Horvat M. **Comparison of active measurements, lichen biomonitoring, and passive sampling for atmospheric mercury monitoring**. Environmental Science and Pollution Research, 2024, 1-11. https://doi.org/10.1007/s11356-024-33582-6

Rumiantseva, O.; Komov, V.; Kutuzov, M.; Zaroual, H.; Mizina, K.; Belova, M.; Nikitin, I.; Stolyarova, A.; Mashin, D.; Vilkova, D. **Hair mercury levels in pregnant women: fish consumption as a determinant of exposure**. Toxics 2024, 12, 366. https://doi.org/10.3390/toxics12050366

Kalinina, S.N., Ilyukha, V.A., Komov, V.T., Zaitseva, I.A., Baishnikova, I.V., Panchenko, D.V., & Antonova, E.P. **The Mercury and Low Molecular-Weight Antioxidants Levels in Ungulates of the Republic of Karelia**. Journal of Evolutionary Biochemistry and Physiology, 2024, 60(2). https://doi.org/10.1134/S0022093024020078

Bos, R., Zheng, W., Lindström, S., Sanei, H., Waajen, I., Fendley, I. M., ... & van de Schootbrugge, B. **Climate-forced Hg-remobilization associated with fern mutagenesis in the aftermath of the end-Triassic extinction**. Nature Communications, 2024, 15(1), 3596. https://doi.org/10.1038/s41467-024-47922-0

Barquero Peralbo, J.I., Esbrí Víctor, J.M., Ntutumu, D.M., Minang, C.M., Lorenzo Álvarez, S., González Valoys, A.C., and Higueras, P. **Regional distribution of mercury in the leaves of Quercus ilex in the Almadén area (Spain).** EGU General Assembly, 2024, EGU24-20759. https://doi.org/10.5194/egusphere-egu24-20759

Higueras, P., Barquero, J.I., Bakale, F., Esbrí, J.M., and García Ordiales, E. **Bioaccumulation of mercury in muscle tissue and hepatopancreas in red crayfish (Procambarus clarkii) in a transect of the Valdeazogues river and tributaries, Almadén Hg mining district, south central Spain**. EGU General Assembly, 2024, EGU24-9369. doi:10.5194/egusphere-egu24-9369

Huo, Z., Li, Z., Guan, P., Shi, F., Jiang, H., He, C., & Wang, Z. **Effect of heavy metal contamination on soil nematode communities in urban brownfields**. Global Ecology and Conservation, 2024, 49. https://doi.org/10.1016/j.gecco.2023.e02787

Wang, G., Hong, Q., Mei, J., Chen, J., Wu, W., Han, F., ... & Yang, S. **Influence of selenium supplementation on mercury levels in hair of metropolitan residents in China: spatial distribution, impact factors, and antagonism**. Exposure and Health, 2024, 1-16. https://doi.org/10.1007/s12403-024-00630-y

Fernandes, I.O., Monteiro, L.C., de Miranda, V.L., Rodrigues, Y.O.S., de Freitas Muniz, D.H., de Castro Paes, É., & Bernardi, J.V.E. **Mercury distribution in organisms, litter, and soils of the Middle Araguaia floodplain in Brazil**. Environmental Science and Pollution Research, 2024, 1-16. https://doi.org/10.1007/s11356-024-32317-x

2023

Shuvaeva, O.V., Gustaytis, M.A., Pokhorukova, A.I., & Romanova, T.E. **The influence of mercury speciation and its transformation in growth medium on the accumulation efficiency by white mustard**. Chemistry and Ecology, 2023, 1-11. https://doi.org/10.1080/02757540.2023.2290174

Monteiro, L.C., Vieira, L.C.G., Bernardi, J.V.E., Bastos, W R., de Souza, J.P.R., do Nascimento Recktenvald, M.C.N., ... & de Souza, J.R. **Local and landscape factors influencing mercury distribution in water, bottom sediment, and biota from lakes of the Araguaia River floodplain, Central Brazil**. Science of The Total Environment, 2023, 168336. https://doi.org/10.1016/j.scitotenv.2023.168336

Moraes, L.d.C.; Bernardi,J.V.E.; Souza, J.P.R.d.; Portela, J.F.;Pereira, H.R.; Barbosa, H.d.O.; Pires,N.L.; Monteiro, L.C.; Rodrigues,Y.O.S.; Vieira, L.C.G.; et al. **Mercury Contamination as an Indicator of Fish Species' Trophic Position in the Middle Araguaia River, Brazil**. Toxics, 2023, 11, 886. https://doi.org/10.3390/tox-ics1111088

Barquero, J.I., Hidalgo, J.J., Esbrí, J.M., Higueras, P.L., & Garcia-Ordiales, E. **Mercury, Methylmercury and Other Potentially Toxic Elements in Black Bass (Micropterus Salmoides) from the Almadén Mining District: Concentration, Dispersion and Risk Concerns**. 2023. https://doi.org/10.2139/ssrn.4534150

Berezina, N., Maximov, A., Sharov, A., Gubelit, Y., & Kholodkevich, S. **Environmental Assessment with Cage Exposure in the Neva Estuary, Baltic Sea: Metal Bioaccumulation and Physiologic Activity of Bivalve Molluscs**. Journal of Marine Science and Engineering, 2023, 11(9), 1756. https://doi.org/10.3390/jmse11091756

Liang, X., Zhong, H., Johs, A. et al. **Light-independent phytoplankton degradation and detoxification of methylmercury in water**. Nat Water, 2023, 1, 705–715. https://doi.org/10.1038/s44221-023-00117-1

Dórea, J. G., Monteiro, L. C., Bernardi, J. V. E., Fernandes, I. O., Oliveira, S. F. B., de Souza, J. P. R., ... & de Souza, J. R. **Land use impact on mercury in sediments and macrophytes from a natural lake in the Brazilian savanna**. Environmental Pollution, 122414. https://doi.org/10.1016/j.envpol.2023.122414

Fernandes, I.O., Monteiro, L.C., De Miranda, V.L., Rodrigues, Y.O.S., Muniz, D.H.D.F., Paes, É.D.C., & Bernardi, J.V.E. **Mercury Dynamics in Organims, Litter, and Soils of the Middle Araguaia Floodplain in Brazil**. Research Square, 2023. https://doi.org/10.21203/rs.3.rs-2398248/v1

Geeza, T.J., Stevenson, L.M., & Mathews, T.J. **Uptake, Efflux, and Sequestration of Hg in the Asian Clam, Corbicula fluminea, at Environmentally Relevant Concentrations, and the Implications for Hg Remediation**. Research square, 2023. https://doi.org/10.21203/rs.3.rs-2882149/v1

Pan, J.; Chen, M.; Zhang, Z.; Zhang, H.; Zong, J.;Wang, Z.; Zhang, G. **Risk Assessments of Plant Leaf and Soil Mercury Pollution in Different Functional Areas of Changchun City**. Forests, 2023, 14, 1108. https://doi.org/10.3390/f14061108

Zhang, L., Kang-Yun, C. S., Lu, X., Chang, J., Liang, X., Pierce, E. M., ... & Gu, B. **Adsorption and intracellular uptake of mercuric mercury and methylmercury by methanotrophs and methylating bacteria**. Environmental Pollution, 2023, 121790. https://doi.org/10.1016/j.envpol.2023.121790

Laske, S.M., Burke, S.M., Carey, M.P., Swanson, H.K., & Zimmerman, C.E. **Investigating effects of climate-induced changes in water temperature and diet on mercury concentrations in an Arctic freshwater forage fish**. Environmental Research, 2023, 218, 114851. https://doi.org/10.1016/j.envres.2022.114851

Ryazanov, S.D., Fomin, S.V., & Kalinchuk, V.V. **Mercury content in the fur of sea otters (Enhydra lutris) from the Commander Islands**. Marine Pollution Bulletin, 2023, 188, 114638. https://doi.org/10.1016/j.marpolbul.2023.114638

Liang, X., Johs, A., Abernathy, M.J., Zhao, J., Du, H., Ku, P., ... & Gu, B. **High methylation potential of mercury complexed with mixed thiolate ligands by Geobacter sulfurreducens PCA**. Geochimica et Cosmochimica Acta, 2023, 342, 74-83. https://doi.org/10.1016/j.gca.2022.12.008

C. Du, Z. Li. **Contamination and health risks of heavy metals in the soil of a historical landfill in northern China**. Chemosphere, 2023, 313, 137349. https://doi.org/10.1016/j.chemosphere.2022.137349

2022

Siqueira, D., Cesar, R., Lourenço, R., Salomão, A., Marques, M., Polivanov, H., ... & Castilhos, Z. C. **Terrestrial and aquatic ecotoxicity of iron ore tailings after the failure of VALE SA mining dam in Brumadinho (Brazil)**. Journal of Geochemical Exploration,2022, 235, 106954. https://doi.org/10.1016/j.gexplo.2022.106954

Monaci, F., Ancora, S., Paoli, L., Loppi, S., & Wania, F. **Lichen transplants as indicators of gaseous elemental mercury concentrations**. Environmental Pollution, 2022, 313, 120189. https://doi.org/10.1016/j.envpol.2022.120189

Božič, D., Živković, I., Hudobivnik, M. J., Kotnik, J., Amouroux, D., Štrok, M., & Horvat, M. **Fractionation of mercury stable isotopes in lichens**. Chemosphere, 2022, 309, 136592. https://doi.org/10.1016/j.chemosphere.2022.136592

Poddubnaya, N.Y., Salkina, G P., Oleynikov, A.Y., Belyaev, A.N., Petrov, T.A., Syritsa, M.V., & Storozhuk, V.B. **Sea fog increases the total mercury level in the terrestrial ecosystem (on the example of the tiger Panthera tigris altaica Temminck, 1844)**. Limnology and Freshwater Biology, 2022, 1323-1325. https://doi.org/10.31951/2658-3518-2022-A-3-1323

Feng, Z., Deng, L., Guo, Y., Guo, G., Wang, L., Zhou, G., ... & Liang, T. **The spatial analysis, risk assessment and source identification for mercury in a typical area with multiple pollution sources in southern China**. Environmental Geochemistry and Health, 2022, 1-13. https://doi.org/10.1007/s10653-022-01436-0

Zhou, X., & Zhang, G. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Regions in a China's Typical Agricultural County: Dehui**. Research Square, 2022. https://doi.org/10.21203/rs.3.rs-1473819/v1

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A. et al. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2022, 1-15. https://doi.org/10.1007/s10653-022-01295-9

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2022, 1-11. https://doi.org/10.1007/s10653-022-01441-3

Rumiantseva, O. Y., Ivanova, E. S., & Komov, V. T. **Influence of environmental and social factors on mercury accumulation in the hair of residents of the Northwest Russia.** Limnology and Freshwater Biology, 2022, 1335-1337. https://doi.org/10.31951/2658-3518-2022-A-3-1335

Caballero-Gallardo, K., Palomares-Bolaños, J. & Olivero-Verbel, J. **Mercury Concentrations in Water, Sediments, Soil, and Fish Around Ancestral Afro-Descendant Territories Impacted by Gold Mining in the Cauca Department, Colombia**. Water Air Soil Pollut., 2022, 233, 393. https://doi.org/10.1007/s11270-022-05779-3

Garcia Gonzalez, H., García-Ordiales, E., & Diez, R.R. **Analysis of the airborne mercury and particulate arsenic levels close to an abandoned waste dump and buildings of a mercury mine and the potential risk of atmospheric pollution**. SN Applied Sciences, 2022, 4(3), 1-10. https://doi.org/10.1007/s42452-022-04964-7

Ghezzi, L.; Arrighi, S.; Giannecchini, R.; Bini, M.; Valerio, M.; Petrini, R. **The Legacy of Mercury Contamination from a Past Leather Manufacturer and Health Risk Assessment in an Urban Area (Pisa Municipality, Italy)**. Sustainability, 2022, 14, 4367. https://doi.org/10.3390/su14074367

Udodenko, Y.G., Robinson, C.T., Choijil, J. et al. **Mercury levels in sediment, fish and macroinvertebrates of the Boroo River, northern Mongolia, under the legacy of gold mining**. Ecotoxicology, 2022. https://doi.org/10.1007/s10646-021-02502-6

Keshav, V., Archana, O., Kumari, D., & Reddy, J. (2022). **Bioindicators Helping in Human and Ecological Health**. International Journal of Research and Analytical Reviews, 2022, 9(1), 245-253. E-ISSN 2348-1269

Gu, B., Yin, X., Liang, X., Zhang, L., & Zhao, J. **Contrary Effects of Phytoplankton Chlorella Vulgaris and its Exudates on Mercury Methylation by Iron-and Sulfate-Reducing Bacteria**. SSRN, 2022. https://doi.org/10.2139/ssrn.4014070

2021

González-Valoys AC, Esbrí JM, Campos JA, Arrocha J, García-Noguero EM, Monteza-Destro T, Martínez E, Jiménez-Ballesta R, Gutiérrez E, Vargas-Lombardo M, Garcia-Ordiales E, García-Giménez R, García-Navarro FJ, Higueras P. **Ecological and Health Risk Assessments of an Abandoned Gold Mine (Remance, Panama): Complex Scenarios Need a Combination of Indices**. Internat. J. Environ. Research and Public Health, 2021, 18(17), 9369. https://doi.org/10.3390/ijerph18179369

Liu, Y., Lin, CJ., Yuan, W. et al. **Translocation and distribution of mercury in biomasses from subtropical forest ecosystems: evidence from stable mercury isotopes**. Acta Geochim, 2021, 40, 42–50. https://doi.org/10.1007/s11631-020-00441-3

Morton Bermea, O., Castro-Larragoitia, J., Arellano Álvarez, Á.A. et al. **Mercury in Blood of Children Exposed to Historical Residues from Metallurgical Activity**. Exposure and Health, 2021. https://doi.org/10.1007/s12403-021-00382-z

Poddubnaya, N.Y., Salkina, G.P., Eltsova, L.S., Ivanova, E.S., Oleynikov, A.Yu., Pavlov, D.D., Kryukov, V.Kh.,. Rumyantseva, O.Yu. **Mercury content in the Siberian tiger (Panthera tigris altaica Temminck, 1844) from the coastal and inland areas of the Russia**. Sci Rep 11, 6923, 2021. https://doi.org/10.1038/s41598-021-86411-y

The Environmental Case Management of Mercury exposed Persons. Ministry of Health, Wellington, New Zealand, 2021. health.govt.nz

Anda Abola, Maris Strazds, Zanda Gavare, Rita Veilande. **Assessing Mercury Pollution Using Black Stork Eggshells**. Environment. Technology. ResourcesProc. 13th Internat. Scientific and Practical

Conference. . Rezekne, Latvia, 2021. 1, 12-16.
http://journals.ru.lv/index.php/ETR/article/view/6528/5395

Alyssa A. Carrell, Grace E. Schwartz, Melissa A. Cregger, Caitlin M. Gionfriddo, Dwayne A. Elias, Regina L. Wilpiszeski, Dawn M. Klingeman, Ann M. Wymore, Katherine A. Muller and Scott C. Brooks. **Nutrient Exposure Alters Microbial Composition, Structure, and Mercury Methylating Activity in Periphyton in a Contaminated Watershed.** Front. Microbiol., 2021.
https://doi.org/10.3389/fmicb.2021.647861

Zhi-Hua Li, Ping Li, Yanhua Wu. **Effects of temperature fluctuation on endocrine disturbance of grass carp Ctenopharyngodon idella under mercury chloride stress**. Chemosphere, 2021, 263, 128137.
https://doi.org/10.1016/j.chemosphere.2020.128137

Rothenberg Sarah E., Sweitzer Danielle N., Rackerby Bryna R., Couch Claire E., Cohen Lesley A., Broughton Heather M., Steingass Sheanna M., Beechler Brianna R. **Fecal Methylmercury Correlates With Gut Microbiota Taxa in Pacific Walruses (Odobenus rosmarus divergens)**. Frontiers in Microbiology, 2021, 12. https://doi.org/10.3389/fmicb.2021.648685

Alexei S. Rozanov, Irina N. Myagkaya, Anton V. Korzhuk, Nikita I. Ershov, Ivan S. Kirichenko, Maria A. Gustaytis, Bagai-ool Yu. Saryg-ool, Victor I. Malov, Aleksandra A. Shipova, Elena V. Lazareva, Sergey E. Peltek. **Metagenomics data of microbial communities in bacterial mats and bottom sediments in water bodies within the Kurai Mercury Province (Gorny Altai, Russia)**. Data in Brief, 2021, 36.
https://doi.org/10.1016/j.dib.2021.107099

Chuanyu Chang, Runsheng Yin, Fang Huang, Ruirui Wang, Chongying Chen, Kang Mao, Xinbin Feng, Hua Zhang. **A new method of predicting the contribution of TGM to Hg in white rice: Using leaf THg and implications for Hg risk control in Wanshan Hg mine area**. Environmental Pollution, 2021, 288, 117727. https://doi.org/10.1016/j.envpol.2021.117727

Viso, S.; Rivera, S.; Martinez-Coronado, A.; Esbrí, J.M.; Moreno, M.M.; Higueras, P. **Biomonitoring of Hg0, Hg2+ and Particulate Hg in a Mining Context Using Tree Barks**. Int. J. Environ. Res. Public Health, 2021, 18, 5191. https://doi.org/10.3390/ijerph18105191

Alyssa A. Carrell, Grace E. Schwartz, Melissa A. Cregger, Caitlin M. Gionfriddo, Dwayne A. Elias, Regina L. Wilpiszeski, Dawn M. Klingeman, Ann M. Wymore, Katherine A. Muller and Scott C. Brooks. **Nutrient Exposure Alters Microbial Composition, Structure, and Mercury Methylating Activity in Periphyton in a Contaminated Watershed**. Frontiers in Microbiology, 2021, 12.
https://doi.org/10.3389/fmicb.2021.647861

2020

K. Haraguchi, M. Sakamoto, A. Matsuyama, M. Yamamoto, D.T. Hung, H. Nagasaka, K. Uchida, Y. Ito, H. Kodamatani, M. Horvat, H.M. Chan, V. Rand, C.M. Cirtiu, B-G. Kim, F. Nielsen, A. Yamakawa, N. Mashyanov, N. Panichev, E. Panova, T. Watanabe, N. Kaneko, J. Yoshinaga, R.F. Herwati, A.E. Suoth, H. Akagi. **Development of Human Hair Reference Material Supporting the Biomonitoring of Methylmercury**. Analytical Sciences, 2020, 36(5), 561. https://doi.org/10.2116/analsci.19SBP07

Luz Helena Sánchez Rodríguez, Olga Marcela Medina Pérez, Fernando Rondón González, Giovanna Rincón Cruz, Linda Rocha Muñoz, Oscar Flórez-Vargas. **Genetic Polymorphisms in Multispecific Transporters Mitigate Mercury Nephrotoxicity in an Artisanal and Small-Scale Gold Mining Community in Colombia**. Toxicological Sciences. 2020, V. 178, 2, 338–346.
https://doi.org/10.1093/toxsci/kfaa142

Jicheng Xia, Jianxu Wang, Leiming Zhang, Christopher W.N. Anderson, Xun Wang, Hua Zhang, Zhihui Dai, Xinbin Feng. **Screening of native low mercury accumulation crops in a mercury polluted mining**

region: Agricultural planning to manage mercury risk in farming communities. Journal of Cleaner Production 262 (2020) 121324. https://doi.org/10.1016/j.jclepro.2020.121324

Samantha Jiménez-Oyola, María-Jesús García-Martínez, Marcelo F. Ortega, David Bolonio, Clara Rodríguez, José-María Esbrí, Juan F. Llamas, Pablo Higueras. **Multi-pathway human exposure risk assessment using Bayesian modeling at the historically largest mercury mining district**. Ecotoxicology and Environmental Safety 201.2020. 110833. https://doi.org/10.1016/j.ecoenv.2020.110833

Nwon M. Adou-Assoumou, Akpé J Adou, Aline A. Krah-Sinan, Florent K Kouakou, Edmee C Mansilla. **Mercury poisoning within the dental clinic Myth or reality in Côte d'Ivoire**. IP Indian Journal of Conservative and Endodontics 2020, 5(3):105–108. https://doi.org/10.18231/j.ijce.2020.025

Opoku Gyamfi, Peter Borgen Sorenson, Godfred Darko, Eugene Ansah, Jesper Leth Bak. **Human health risk assessment of exposure to indoor mercury vapour in a Ghanaian artisanal small-scale gold mining community**. Chemosphere 241 (2020) 125014. https://doi.org/10.1016/j.chemosphere.2019.125014

Du, B., Li, P., Feng, X., Yin, R., Zhou, J., Maurice, L. **Monthly variations in mercury exposure of school children and adults in an industrial area of southwestern China**. Environmental Research, 2020. https://doi.org/10.1016/j.envres.2020.110362.

Alejandra Manjarres-Suarez & Jesus Olivero-Verbel. **Hematological parameters and hair mercury levels in adolescents from the Colombian Caribbean**. Environ Sci Pollut Res., 27, 14216–14227, 2020. https://doi.org/10.1007/s11356-020-07738-z

Iuliia Aleksina, Viktor Komov. **Factors affecting the mercury concentration in the hair of young residents of the Vologda region, Russia**. Heliyon, 2020, V.6, 8. https://doi.org/10.1016/j.heliyon.2020.e04580

Jay Hammerling, Arielle Kanters, Benjamin Jacobs, Alfred Franzblau, Pauline K. Park, Lena M. Napolitano. **An Unusual Cause of Severe Hypoxemia and Acute Respiratory Distress Syndrome**. Chest, 2020, 158, 2. https://doi.org/10.1016/j.chest.2019.11.058

Feng, Z., Xiao, T., Zhang, G., Zhang, L., Cui, Y., & Jiang, Y. **Mercury spatial distribution characteristics and its exposure of the endangered Jankowski's bunting**. Ecological Research, 2020, 1-12. https://doi.org/10.1111/1440-1703.12117

Ferhat Karaca, Aiganym Kumisbek, Vassilis J. Inglezakis, Seitkhan Azat, Almagul Zhakiyenova, Gulden Ormanova, Mert Guney. **DiMIZA: A dispersion modeling based impact zone assessment of mercury (Hg) emissions from coal-fired power plants and risk evaluation for inhalation exposure.** Engineering Reports, 2020, https://doi.org/10.1002/eng2.12357

S.A. Thomas, B. Mishra, S.C.B. Myneni. **Cellular Mercury Coordination Environment, and Not Cell Surface Ligands, Influence Bacterial Methylmercury Production**. Environmental Science & Technology, 2020, 54(7), 3960-3968. https://doi.org/10.1021/acs.est.9b05915

Zhidong Xu, Qinhui Lu, Xiaohang Xu, Xinbin Feng, Longchao Liang, Lin Liu, Chan Li, Zhuo Chen, Guangle Qiu. **Multi-pathway mercury health risk assessment, categorization and prioritization in an abandoned mercury mining area: A pilot study for implementation of the Minamata Convention**. Chemosphere, 2020, 260, 127582, https://doi.org/10.1016/j.chemosphere.2020.127582

Udodenko, Y.G., Prokin, A.A., Seleznev, D.G. et al. **Mercury Content in Water Beetles (Coleoptera: Dytiscidae, Hydrophilidae) of Different Size Classes**. Inland Water Biol, 2020 13, 684–690. https://doi.org/10.1134/S1995082920040124

Tirado-Ballestas, I., Caballero-Gallardo, K. & Olivero-Verbel, J. **Toxicological effects of bituminous coal dust on the earthworm Eisenia fetida (Oligochaeta: Lumbricidae)**. Ecotoxicology, 2020, 29, 1422–1430. https://doi.org/10.1007/s10646-020-02263-8

2019

National Elemental Mercury Response Guidebook. USEPA, March 2019. https://www.acac.org/forms/otherpdfs/epamercury2019.pdf

Opoku Gyamfi, Peter Borgen Sorenson, Godfred Darko, Eugene Ansah, Jesper Leth Bak. **Human health risk assessment of exposure to indoor mercury vapour in a Ghanaian artisanal small-scale gold mining community**. Chemosphere 241 (2020) 125014. https://doi.org/10.1016/j.chemosphere.2019.125014

Lenn G Gomah, Rafael S Ngumbu, Ray B Voegborlo. **Dietary Exposure to Heavy Metal Contaminated Rice and Health Risk to the Population of Monrovia**. J. Environmental Science and Public Health, 2019, 3, 474-482. https://doi.org/10.26502/jesph.96120077

Qiu, G., Abeysinghe, K.S., Yang, XD. et al. **Effects of Selenium on Mercury Bioaccumulation in a Terrestrial food Chain from an Abandoned Mercury Mining Region**. Bull Environ Contam Toxicol, 2019, 102, 329–334. https://doi.org/10.1007/s00128-019-02542-z

Carlos Alberto da Silva, Silvia de Oliveira Santos, Carlos Alexandre Borges Garcia, Gabriela Cugler de Pontes & Julio Cesar Wasserman. **Metals and arsenic in marine fish commercialized in the NE Brazil: Risk to human health**. Human and Ecological Risk Assessment, 2019. https://doi.org/10.1080/10807039.2018.1529552

Gremyachikh, V. A., Kvasov, D. A., & Ivanova, E. S. **Patterns of mercury accumulation in the organs of bank vole Myodes glareolus (Rodentia, Cricetidae)**. Biosystems Diversity, 2019, 27(4), 329–333. https://doi.org/10.15421/011943

2018

Buyun Du, Xinbin Feng, Ping Li, Runsheng Yin, Ben Yu, Jeroen E. Sonke, Benjamin Guinot, Christopher W. N. Anderson, and Laurence Maurice. **Use of Mercury Isotopes to Quantify Mercury Exposure Sources in Inland Populations, China**. Environ. Sci. Technol., 2018, 52(9), 5407–5416. https://doi.org/10.1021/acs.est.7b05638

A. Prevodnik, A. Willcox, E. Lymberidi-Settimo, M. Bender, O. Lane. **Mercury Skin-Lightening Creams: Available, Inexpensive and Toxic**. 2018, www.eeb.org/ www.zeromercury.org

Wilson E, Lafferty JS, Thiboldeaux R, et al. **Occupational Mercury Exposure at a Fluorescent Lamp Recycling Facility — Wisconsin, 2017**. MMWR Morb Mortal Wkly Rep 2018, 67:763–766. https://doi.org/10.15585/mmwr.mm6727a3externalicon

Ana Paula de Castro Rodrigues, Rodrigo Guerra Carvalheira, Vanessa Gomes, Ana Rosa Linde Arias, Nádia Regina Pereira Almosny, Zuleica Carmen Castilhos, Edison Dausacker Bidone. **Acetylcholinesterase Activity in Fish Exposed to Mercury in Guanabara Bay, RJ, Brazil**. Environmental Pollution and Protection, 2018, 3(4), 91-99. https://doi.org/10.22606/epp.2018.34001

Yuber Palacios-Torres, Karina Caballero-Gallardo, Jesus Olivero-Verbel. **Mercury pollution by gold mining in a global biodiversity hotspot, the Choco biogeographic region, Colombia**. Chemosphere, 2018, 193, 2018, 421-430. https://doi.org/10.1016/j.chemosphere.2017.10.160

Poste, A. E., Pastukhov, M. V., Braaten, H. F. V., Ozersky, T., & Moore, M. **Past and present mercury accumulation in the Lake Baikal seal: Temporal trends, effects of life history, and toxicological implications**. Environmental Toxicology and Chemistry, 2018, 37(5), 1476–1486. https://doi.org/10.1002/etc.4095

Trukhin A.M., Kalinchuk V.V. **Hair mercury concentrations in the spotted seal (Phoca largha) pups from the Sea of Japan**. Environ Sci Pollut Res, 2018, 25, 27133–27140. https://doi.org/10.1007/s11356-018-2731-6

Lenn Galileo Gomah, Ray Bright Voegborlo, Rafael Sarji Ngumbu. **Levels of Heavy Metals in some Commercially available Rice on the Liberian Market**. Internat. J. Scientific Research in Science and Technology, 2018. https://doi.org/10.32628/IJSRST1840119

2017

Romilda Z. Boerleider, Nel Roeleveld, Paul T.J. Scheepers. **Human biological monitoring of mercury for exposure assessment**. AIMS Environmental Science, 2017, 4 (2): 251-276. https://doi.org/10.3934/environsci.2017.2.251

Sarah E. Rothenberg, Runsheng Yin, James P. Hurley, David P. Krabbenhoft, Yuyun Ismawati, Chuan Hong, and Alexis Donohue. **Stable Mercury Isotopes in Polished Rice (Oryza sativa L.) and Hair from Rice Consumers**. Environ. Sci. Technol. 2017, 51, 11, 6480–6488. https://doi.org/10.1021/acs.est.7b01039

Berdonces M. A. L., Higueras P. L., Fernández-Pascual M., Borreguero A. M., Carmona M. **The role of native lichens in the biomonitoring of gaseous mercury at contaminated sites**. J. Environmental Management. 2017. V. 186, 2. 207–213. https://doi.org/10.1016/j.jenvman.2016.04.047

Rodríguez L. H. S., Rodríguez-Villamizar L. A., Flórez-Vargas O., Fiallo, Y. V., Ordoñez Á., del Carmen Gutiérrez M. **No effect of mercury exposure on kidney function during ongoing artisanal gold mining activities in Colombia: A cross-sectional study**. Toxicology and Industrial Health. 2017. V. 33, 1. 67–78. https://doi.org/10.1177/0748233716659031

Loto AO, Oyapero A, Awotile AO, Adenuga-Taiwo A O, Enone LL, Menakaya IN. **Managing amalgam phase down: An evaluation of mercury vapor levels in a dental center in Lagos, Nigeria**. J Dent Res Rev 2017;4:4-8. https://doi.org/10.4103/jdrr.jdrr_20_17

S. Bose-O'Reilly, L. Bernaudat, U. Siebert, G. Roider, D. Nowak, G. Drasch. **Signs and symptoms of mercury-exposed gold miners**. Internat. J. Occupational Medicine and Environmental Health, 2017, 30(2), 249–269. https://doi.org/10.13075/ijomeh.1896.00715

P. Schutzmeier, U. Berger, S. Bose-O'Reilly. **Gold Mining in Ecuador: A Cross-Sectional Assessment of Mercury in Urine and Medical Symptoms in Miners from Portovelo/Zaruma**. Int. J. Environ. Res. Public Health 2017, 14(1), 34. https://doi.org/10.3390/ijerph14010034

Panichev N.A., Panicheva S.E. **Concentration of Total Mercury in Convenience Fish Products and Cooked Fish**. Oceanography & Fisheries Open Access Journal, 2017, 3(1), 29-31. https://doi.org/10.19080/OFOAJ.2017.03.555604

2016

Bose-O'Reilly S., Schierl R., Nowak D., Siebert U., William J. F., Owi F.T., Ir Y.I. **A preliminary study on health effects in villagers exposed to mercury in a small-scale artisanal gold mining area in Indonesia**. Environ. Research. 2016. V. 149. 274–281. https://doi.org/10.1016/j.envres.2016.04.007

D. Rendoo, B. Dayanjav, U. Ganbold, S. Bose-O'Reilly, A. Onom, U. Surenjav, S. Duvjir. **Mercury Levels of Environmentally and Occupationally Exposed Residents in Bornuur and Jargalant Districts of Mongolia**. Environment and Ecology Research, 2016, 4(4), 217-222. https://doi.org/10.13189/eer.2016.040405

Buch A. C., Niemeyer J. C., Correia M. E. F., Vieira Silva-Filho E. **Ecotoxicity of mercury to Folsomia candida and Proisotoma minuta (Collembola: Isotomidae) in tropical soils: Baseline for ecological**

risk assessment. Ecotoxicology and Environmental Safety. 2016. V. 127. 22–29. https://doi.org/10.1016/j.ecoenv.2016.01.009

Deng C., Xie H., Ye X., Zhang H., Liu M., Tong Y., Ou L., Yuan W., Wang X. **Mercury risk assessment combining internal and external exposure methods for a population living near a municipal solid waste incinerator**. Environmental Pollution. 2016. V. 219. 1060–1068. https://doi.org/10.1016/j.envpol.2016.09.006

Buyun Du, Ping Li, Xinbin Feng, Guangle Qiu, Jun Zhou and Laurence Maurice. **Mercury Exposure in Children of the Wanshan Mercury Mining Area, Guizhou, China**. Int. J. Environ. Res. Public Health 2016, 13, 1107. https://doi.org/10.3390/ijerph13111107

Doering S, Bose-O'Reilly S, Berger U. **Essential Indicators Identifying Chronic Inorganic Mercury Intoxication: Pooled Analysis across Multiple Cross-Sectional Studies**. PLoS ONE, 2016, 11(8): e0160323. https://doi.org/10.1371/journal.pone.0160323

Grzegorz Majewski, Karolina Kociszewska, Wioletta Rogula-Kozłowska, et.al. **Submicron Particle-Bound Mercury in University Teaching Rooms: A Summer Study from Two Polish Cities**. Atmosphere, 2016, 7(9), 117. https://doi.org/10.3390/atmos7090117

N.A. Panichev, S.E. Panicheva. **Influence of Different Cooking Procedure on the Hg Concentration in Fish**. J Fisheriessciences.com, 2016, 10(1), 63-69.

Andressa Cristhy Buch, Júlia Carina Niemeyer, Maria Elizabeth Fernandes Correia, Emmanoel Vieira Silva-Filho. **Ecotoxicity of mercury to Folsomia candida and Proisotoma minuta (Collembola: Isotomidae) in tropical soils: Baseline for ecological risk assessment**. Ecotoxicology and Environmental Safety, 2016, 127, 22-29. https://doi.org/10.1016/j.ecoenv.2016.01.009

Komov, V.T.; Javzan, Ch.; and Brumbaugh, W.G. **An Ecotoxicological Survey of Tributaries of the Selenge River, Mongolia, August 2010**. Exploration into the Biological Resources of Mongolia, 2016. http://digitalcommons.unl.edu/biolmongol/175

Száková J, Havlíčková J, Šípková A, Gabriel J, Švec K, Baldrian P, Sysalová J, Coufalík P, Červenka R, Zvěřina O, Komárek J, Tlustoš P. **Effects of the soil microbial community on mobile proportions and speciation of mercury (Hg) in contaminated soil**. J Environ Sci Health, 2016; 51(4), 364-70. https://doi.org/10.1080/10934529.2015.1109413

Andressa Cristhy Buch, Júlia Carina Niemeyer, Maria Elizabeth Fernandes Correia, Emmanoel Vieira Silva-Filho. **Ecotoxicity of mercury to Folsomia candida and Proisotoma minuta (Collembola: Isotomidae) in tropical soils: Baseline for ecological risk assessment**. Ecotoxicology and Environmental Safety, 2016, 127, 22-29. https://doi.org/10.1016/j.ecoenv.2016.01.009

2015

Bourdineaud, JP., Durrieu, G., Sarrazin, S.L.F. et al. **Mercurial exposure of residents of Santarém and Oriximiná cities (Pará, Brazil) through fish consumption**. Environ Sci Pollut Res 2015, 22, 12150–12161. https://doi.org/10.1007/s11356-015-4502-y

Ardiana Ekawanti, Baiq Dewi Krisnayanti. **Effect of Mercury Exposure on Renal Function and Hematological Parameters among Artisanal and Small-scale Gold Miners at Sekotong, West Lombok, Indonesia**. Journal of Health and Pollution, 2015, 5 (9): 25–32. https://doi.org/10.5696/2156-9614-5-9.25

Ping Li, Xinbin Feng, Hing-Man Chan, Xiaofeng Zhang, and Buyun Du. **Human Body Burden and Dietary Methylmercury Intake: The Relationship in a Rice-Consuming Population**. Environ. Sci. Technol. 2015, 49, 9682−9689. https://doi.org/10.1021/acs.est.5b00195

Copan, L.; Fowles, J.; Barreau, T.; McGee, N. **Mercury Toxicity and Contamination of Households from the Use of Skin Creams Adulterated with Mercurous Chloride (Calomel)**. Int. J. Environ. Res. Public Health, 2015, 12, 10943-10954. https://doi.org/10.3390/ijerph120910943

Hagan, N., Robins, N., Hsu-Kim, H. et al. **Mercury hair levels and factors that influence exposure for residents of Huancavelica, Peru**. Environ Geochem Health, 2015, 37, 507–514. https://doi.org/10.1007/s10653-014-9665-9

Cordy, P., Veiga, M., Bernaudat, L., & Garcia, O. **Successful airborne mercury reductions in Colombia**. Journal of Cleaner Production, 2015, 108, 992–1001. https://doi.org/10.1016/j.jclepro.2015.06.102

Hagan N., Robins N., Gonzales R. D. E., Hsu-Kim H. **Speciation and bioaccessibility of mercury in adobe bricks and dirt floors in Huancavelica, Peru**. Environmental Geochemistry and Health, 2015, 37(2). 263–272. https://doi.org/10.1007/s10653-014-9644-1

Li P., Du B., Chan H. M., Feng X. **Human inorganic mercury exposure, renal effects and possible pathways in Wanshan mercury mining area, China**. Environmental Research, 2015, 140, 198-204. https://doi.org/10.1016/j.envres.2015.03.033

Ou L., Chen C., Chen L., Wang H., Yang T., Xie H., Tong Y., Hu D., Zhang W., Wang X. **Low-level prenatal mercury exposure in North China: An exploratory study of anthropometric effects**. Environmental Science & Technology, 2015, 49(11), 6899–6908. https://doi.org/10.1021/es5055868

Sánchez Rodríguez L. H., Flórez-Vargas O., Rodríguez-Villamizar L. A., Vargas Fiallo Y., Stashenko E. E., Ramírez G. **Lack of autoantibody induction by mercury exposure in artisanal gold mining settings in Colombia: Findings and a review of the epidemiology literature.** Journal of Immunotoxicology, 2015, 12(4). https://doi.org/10.3109/1547691X.2014.986591

2014

Daniel Peplow and Sarah Augustine. **Neurological abnormalities in a mercury exposed population among indigenous Wayana in Southeast Suriname**. Environ. Sci.: Processes Impacts, 2014, 16, 2415-2422. https://doi.org/10.1039/C4EM00268G

Jesús Olivero-Verbel, Fredys Young-Castro, Karina Caballero-Gallardo. **Contaminación por mercurio en aire del distrito minero de San Martín de Loba en el departamento de Bolívar, Colombia**. Rev. Int. Contam. Ambie. 2014, 30 (1) 7-13. ISSN 0188-4999

Braaten H. F. V., Fjeld E., Rognerud S., Lund E., Larssen T. **Seasonal and year-to-year variation of mercury concentration in perch (Perca fluviatilis) in boreal lakes**. Environmental Toxicology and Chemistry, 2014, 33, № 12, 2661–2670. https://doi.org/10.1002/etc.2733

Correia J., Cesar R., Marsico E., Diniz G. T.N., Zorro M.C., Castilhos Z. **Mercury contamination in alligators (Melanosuchus niger) from Mamirauá Reservoir (Brazilian Amazon) and human health risk assessment**. Environ. Sci. and Pollution Research, 2014, 21, № 23, 13522–13527. https://doi.org/10.1007/s11356-014-3282-0

Cesar, R., Natal-da-Luz, T., Sousa, J. P., Colonese, J., Bidone, E., Castilhos, Z., Polivanov, H. **Disposal of dredged sediments in tropical soils: ecotoxicological effects on earthworms**. Environmental Monitoring and Assessment, 2014, 186(3), 1487–1497. https://doi.org/10.1007/s10661-013-3468-9

Khwaja M.A., Abbasi M.S. **Mercury poisoning dentistry: high-level indoor air mercury contamination at selected dental sites**. Reviews on Environmental Health, 2014, 29(1-2), 29–31. https://doi.org/10.1515/reveh-2014-0010

Khwaja M.A., Abbasi M.S., Mehmood F., Jahangir S. **Study of high levels indoor air mercury contamination from mercury amalgam use in dentistry**. Science Technology and Development, 2014, 33(2), 94–106. www.sdpi.org/publications/publication_details-604-50.html

Scheepers, P.T.J., van Ballegooij-Gevers, M., & Jans, H. **Biological monitoring involving children exposed to mercury from a barometer in a private residence**. Toxicology Letters, 2014231(3), 365–373. https://doi.org/10.1016/j.toxlet.2014.03.017

Zhang H., Wang D., Zhang J., Shang X., Zhao Y., Wu Y. **Total mercury in milled rice and brown rice from China and health risk evaluation**. Food Additives & Contaminants: Part B, 2014, 7(2), 141–146. https://doi.org/10.1080/19393210.2013.860485

2013

Carrie A. Dickenson, Tracey J. Woodruff, Naomi E. Stotland, Dina Dobraca, Rupali Das. **Elevated mercury levels in pregnant woman linked to skin cream from Mexico**. American J. Obstetgics & Gynecology, 2013, 209, 2, E4-E5. https://doi.org/10.1016/j.ajog.2013.05.030

Ramírez, C.; Olarte, E.; Téllez, E.; Palma, M. **Validación del método analítico para la determinación de mercurio total en sangre humana por espectrofotometría de absorción atómica Zeeman RA-915+ con el módulo de pirólisis PYRO-915+**. Rev Colomb Quim. 2013. 42(3): 11-16. On-line version ISSN 2357-3791

Cordy P., Veiga M., Crawford B., Garcia O., Gonzalez V., Moraga D., Roeser M., Wip D. **Characterization, mapping, and mitigation of mercury vapour emissions from artisanal mining gold shops**. Environmental Research, 2013, 125, 82-91. https://doi.org/10.1016/j.envres.2012.10.015

Hu H., Lin H., Zheng W., Rao B., Feng X., Liang L., Elias D. A., Gu B. **Mercury reduction and cell-surface adsorption by Geobacter sulfurreducens PCA**. Environ. Sci. Technol. 2013, 47, 19, 10922–10930. https://doi.org/10.1021/es400527m

Mazer-Amirshahi M., Bleecker M. L., Barrueto Jr F. **Intraperitoneal elemental mercury exposure from a mercury-weighted bougie.** J. Medical Toxicol, 2013, 9, № 3, 270–273. https://doi.org/10.1007/s13181-013-0303-1

Rothenberg S. E., Yu X., Zhang Y. **Prenatal methylmercury exposure through maternal rice ingestion: Insights from a feasibility pilot in Guizhou Province, China**. Environmental Pollution, 2013, 180, 291–298. https://doi.org/10.1016/j.envpol.2013.05.037

Silva I. C. M. D., Campos R. C. D., Meyer A., Asmus C. I. R. F., Davis R. H., Câmara V. D. M. **Mercúrio em clínica odontológica: concentrações semanais no ambiente de trabalho e suas relações com procedimentos dentários em São Gonçalo, Estado do Rio de Janeiro, Brasil (Mercury in dental clinic: weekly concentrations in the workplace and its relations with dental procedures in São Gonçalo, Rio de Janeiro State, Brazil)**. Revista Pan-Amazônica de Saúde, 2013, V. 4, № 4, 49–55 (In Portuguese). https://doi.org/10.5123/S2176-62232013000400006

2012

The Real Cost of Dental Mercury. Concorde East/West Sprl, Brussels, 2012, 59 p. https://mercuryfreedentistry.files.wordpress.com/2016/02/the-real-cost-of-dental-mercury.pdf

Campos R. M., Lacerda R., Fraga R. C., Hayassy A., Rodrigues Filho H. S., Câmara V. D. M. **Mercury contamination in dentistry: the utility of quantitative analysis in environment with amalgam restorative practice.** J. Health Sciences Institute, 2012, 30, № 3, 217–221. (In Portuguese). www.unip.br/comunicacao/publicacoes/ics/edicoes/2012/03_jul-set/V30_n3_2012_p217a221.pdf

Peplow D, Augustine S. **Community-Led Assessment of Risk from Exposure to Mercury by Native Amerindian Wayana in Southeast Suriname**. J Environ Public Health. 2012;2012:674596. https://doi.org/10.1155/2012/674596

Alpert G. D., Herman-Haase H., Roberts M. **A field method for the detection of elemental mercury in sink traps**. J. Chemical Health & Safety, 2012, 19, № 2, 22–26. https://doi.org/10.1016/j.jchas.2011.06.003

Cesar R., Silva M., Colonese J., Bidone E., Egler S., Castilhos Z., Polivanov H. **Influence of the properties of tropical soils in the toxicity and bioavailability of heavy metals in sewage sludge-amended lands**. Environ. Earth Sciences, 2012, 66, № 8, 2281–2292. https://doi.org/10.1007/s12665-011-1449-2

Krisnayanti B. D., Anderson C. W. N., Utomo W. H., Feng X., Handayanto E., Mudarisna N., Ikram H., Khususiah. **Assessment of environmental mercury discharge at a four-year-old artisanal gold mining area on Lombok Island, Indonesia.** J. Environmental Monitoring, 2012, 14, № 10, 2598–2607. https://doi.org/10.1039/C2EM30515A

Lollobrigida de Souza J. P. B., Nozawa S. R., Honda R. T. **Improper waste disposal of silver-mercury amalgam**. Bulletin of Environmental Contamination and Toxicology, 2012, 88, № 5, 797–801. https://doi.org/10.1007/s00128-012-0554-6

Nance P., Patterson J., Willis A., Foronda N., Dourson M. **Human health risks from mercury exposure from broken compact fluorescent lamps (CFLs)**. Regulatory Toxicology and Pharmacology, 2012, 62, № 3, 542–552. https://doi.org/10.1016/j.yrtph.2011.11.008

Thompson M. R. **Mercury contamination review of a residential response**. Professional Safety, 2012, 57. – № 2, 50–58. http://www.asse.org/professionalsafety/search/index3.php?search=1

2011

Jennifer Baeuml, Stephan Bose-O'Reilly, Beate Lettmeiea, Alexandra Maydl, Katalin Messerer, Gabriele Roider, Gustav Drasch, Uwe SiebertInternat. **Applicability of two mobile analysers for mercury in urine in small-scale gold mining areas**. Journal of Hygiene and Environmental Health 215 (2011) 64– 67. https://doi.org/10.1016/j.ijheh.2011.06.005

Sergi Díez, José M. Esbrí, Aurelio Tobias, Pablo Higueras, Alba Martínez-Coronado. **Determinants of exposure to mercury in hair from inhabitants of the largest mercury mine in the world.** Chemosphere 84 (2011) 571–577. https://doi.org/10.1016/j.chemosphere.2011.03.065

Patricio C. Velásquez-López, Marcelo M. Veiga, Bern Klein, Janis A. Shandro, Ken Hall. **Cyanidation of mercury-rich tailings in artisanal and small-scale gold mining: identifying strategies to manage environmental risks in Southern Ecuador**. Journal of Cleaner Production 19 (2011) 1125e1133. https://doi.org/10.1016/j.jclepro.2010.09.008

González-Carrasco V., Velasquez-Lopez P. C., Olivero-Verbel J., Nerlis Pájaro-Castro N. **Air mercury contamination in the gold mining town of Portovelo, Ecuador**. Bulletin of Environmental Contamination and Toxicology, 2011, 87, №, 250–253. https://doi.org/10.1007/s00128-011-0345-5

Deng C., Zhang C., Li L., Li Z., Li N. **Mercury contamination and its potential health effects in a lead–zinc mining area in the karst region of Guangxi, China**. Applied Geochemistry, 2011, 26, 2, 154–159. https://doi.org/10.1016/j.apgeochem.2010.11.013

Li P., Feng X., Qiu G., Wan Q. **Hair can be a good biomarker of occupational exposure to mercury vapor: Simulated experiments and field data analysis**. Sci. Total Environ., 2011, 409, № 20, 4484–4488. https://doi.org/10.1016/j.scitotenv.2011.06.045

2010

Bose-O'Reilly S, McCarty KM, Steckling N, Lettmeier B. **Mercury exposure and children's health**. Current Problems in Pediatric and Adolescent Health Care. 2010, 40(8), 186-215. https://doi.org/10.1016/j.cppeds.2010.07.002.

Bose-O'Reilly S., Drasch G., Beinhoff C., Rodrigues-Filho S., Roider G., Lettmeier B., Maydl A., Maydl S., Siebert U. **Health assessment of artisanal gold miners in Indonesia**. Sci. Total Environment, 2010, 408, № 4, 713–725. https://doi.org/10.1016/j.scitotenv.2009.10.070

Bose-O'Reilly S., Drasch G., Beinhoff C., Tesha A., Drasch K., Roider G., Taylor H., Appleton D., Siebert U. **Health assessment of artisanal gold miners in Tanzania**. Sci. Total Environment, 2010, 408, № 4, 796–805. https://doi.org/10.1016/j.scitotenv.2009.10.051

Alam M. A., Gomes A., Sarkar S. K., Shuvaeva O. V., Vishnevetskaya N. S., Gustaytis M. A., Bhattacharya B. D., Godhantaraman N. **Trace metal bioaccumulation by soft-bottom Polychaetes (Annelida) of Sundarban mangrove wetland, India and their potential use as contamination indicator**. Bulletin of Environmental Contamination and Toxicology, 2010, 85 (5), 492–496. https://doi.org/10.1007/s00128-010-0110-1

2009

Shandro J. A., Veiga M. M., Chouinard R. **Reducing mercury pollution from artisanal gold mining in Munhena, Mozambique**. J. Cleaner Production, 2009, 17, 5, 525–532. https://doi.org/10.1016/j.jclepro.2008.09.005

2008

Guidance for identifying populations at risk from mercury exposure. WHO/UNEP DTIE Chemicals Branch/ 2008. https://www.who.int/foodsafety/publications/risk-mercury-exposure/en/

Bose-O'Reilly S., Lettmeier B., Matteucci Gothe R., Beinhoff Chr., Siebert U., Drasch G. **Mercury as a serious health hazard for children in gold mining areas**. Environmental Research, 2008, 107, № 1, 89–97. https://doi.org/10.1016/j.envres.2008.01.009

Bose-O'Reilly S., Lettmeier B., Roider G., Siebert U., Drasch G. **Mercury in breast milk – A health hazard for infants in gold mining areas**. Internat. J. Hygiene and Environmental Health, 2008, 211, № 5–6, 615–623. https://doi.org/10.1016/j.ijheh.2007.09.015

Ping Li, Xinbin Feng, Guangle Qiu, Lihai Shang, Shaofeng Wang. **Mercury exposure in the population from Wuchuan mercury mining area, Guizhou, China**. Science Total Environ., 2008, 395, 72 – 7 9. https://doi.org/10.1016/j.scitotenv.2008.02.006

K. Nanjid, E. Erdenebaatar, D. Vanya, B. Badrakh, C. Ochir. **Mercury Exposure Assessment in Informal Gold Miners**. Epidemiology, 2008, 19 (6), S244. https://doi.org/10.1097/01.ede.0000340222.86177.ee

Garetano G., Stern A. H., Robson M., Gochfeld M. **Mercury vapor in residential building common areas in communities where mercury is used for cultural purposes versus a reference community**. Sci. Total Environment, 2008, 397, № 1–3, 131–139. https://doi.org/10.1016/j.scitotenv.2008.02.034

Beaulieu H. J., Beaulieu S., Brown C. **Phenyl mercuric acetate (PMA): mercury-bearing flexible gymnasium floors in schools – evaluation of hazards and controlled abatement.** J. Occupational and Environmental Hygiene, 2008, 6, 360–366. https://doi.org/10.1080/15459620802017425

2007

Stone M. E., Cohen M. E., Debban B. A. **Mercury vapor levels in exhaust air from dental vacuum systems**. Dental Materials, 2007, 23, № 5, 527–532. https://doi.org/10.1016/j.dental.2006.03.011

Grover T. L., Vidich Ch., Hennessey J., Freitas J., Mueller M. D. **Mercury exposure assessment: Testing a work practice for cleaning up broken fluorescent bulbs**. Professional Safety, 2007, 12, 39–45. www.asse.org/professional-safety/indexes/2007/

Morrison M. **Exposure assessment of household mercury spills.** J. Chemical Health and Safety, 2007, 14, № 1, 17–21. https://doi.org/10.1016/j.jchas.2006.08.004

Peplow D, Augustine S. **Community-directed risk assessment of mercury exposure from gold mining in Suriname**. Rev Panam Salud Publica. 2007;22(3):202–10. https://doi.org/10.1590/s1020-49892007000800007

IRIS-PAHO-WHO. **Community-directed risk assessment of mercury exposure from gold mining in Suriname**. https://iris.paho.org/handle/10665.2/7781

Burger J., Gochfeld M., Jeitner C., Burke S., Stamm T. **Metal levels in flathead sole (Hippoglossoides elassodon) and great sculpin (Myoxocephalus polyacanthocephalus) from Adak Island, Alaska: Potential risk to predators and fishermen**. Environmental Research, 2007, 103, № 1, 62–69. https://doi.org/10.1016/j.envres.2006.02.005

Burger J., Gochfeld M., Shukla T., Jeitner C., Burke S., Donio M., Shukla S., Snigaroff R., Snigaroff D., Stamm T., Volz C. **Heavy metals in Pacific cod (Gadus macrocephalus) from the Aleutians: location, age, size, and risk**. J. Toxicology and Environmental Health, 2007, 70, № 22, 1897–1911. https://doi.org/10.1080/15287390701551159

Dahlgren J., Takhar H., Anderson-Mahoney P., Kotlerman J., Tarr J., Warshaw R. **Cluster of systemic lupus erythematosus (SLE) associated with an oil field waste site: a cross sectional study**. Environmental Health, 2007, 6, 8–15. https://doi.org/10.1186/1476-069X-6-8

2006

Baughman Th. A. **Elemental mercury spills**. Environmental Health Perspectives, 2006, 114, № 2, 147-152. https://doi.org/10.1289/ehp.7048

Ru-Jin Huang, Zhi-Xia Zhuang, Yi Tai, Rong-Fu Huang, Xiao-Ru Wang, Frank S.C. Lee. **Direct analysis of mercury in Traditional Chinese Medicines using thermolysis coupled with on-line atomic absorption spectrometry**. Talanta. 2006, 68, 728–734. https://doi.org/10.1016/j.talanta.2005.05.014

Garetano G., Gochfeld M., Stern A. H. **Comparison of indoor mercury vapor in common areas of residential buildings with outdoor levels in a community where mercury is used for cultural purposes.** Environmental Health Perspectives, 2006, 114, № 1, 59–62. https://doi.org/10.1289/ehp.8410

Riley D. M., Newby C. A., Leal-Almeraz T. O. **Incorporating ethnographic methods in multidisciplinary approaches to risk assessment and communication: cultural and religious uses of mercury in Latino and Caribbean communities**. Risk Analysis, 2006, 26, № 5, 1205. https://doi.org/10.1111/j.1539-6924.2006.00809.x

Spiegel S. J., Savornin O., Shoko D., Veiga M. M. **Mercury reduction in Munhena, Mozambique: homemade solutions and the social context for change**. Internat. J. Occupational and Environmental Health, 2006, 12, № 3, 215–221. https://doi.org/10.1179/oeh.2006.12.3.215

Ru-Jin Huang, Zhi-Xia Zhuang, Yi Tai, Rong-Fu Huang, Xiao-Ru Wang, Frank S.C. Lee. **Direct analysis of mercury in Traditional Chinese Medicines using thermolysis coupled with on-line atomic absorption spectrometry**. Talanta. 2006, 68, 728–734. https://doi.org/10.1016/j.talanta.2005.05.014

Gary Garetano, Michael Gochfeld, and Alan H. Stern. **Comparison of Indoor Mercury Vapor in Common Areas of Residential Buildings with Outdoor Levels in a Community Where Mercury Is Used for Cultural Purposes**. Environmental Health Perspectives, V. 114, №1, 59-62, 2006. https://doi.org/10.1289/ehp.8410

Antonio Garcia-Sanchez, Felicia Contreras, Meliton Adams, Fernando Santos. **Airborne total gaseous mercury and exposure in a Venezuelan mining area**. Int. J Environ. Health Res., 2006, 16(5):361-73. https://doi.org/10.1080/09603120600869315

J. Burger, M. Gochfeld. **Mercury in fish available in supermarkets in Illinois: Are there regional differences**. Sci. Total Environment, 2006, 367(2–3), 1010-1016. https://doi.org/10.1016/j.scitotenv.2006.04.018

2005

Marcello M. Veiga, Dario Bermudez, Heloisa Pacheco-Ferreira, Luiz Roberto Martins Pedroso, Aaron J. Gunson, Gilberto Berrios, Ligia Vos, Pablo Huidobro, Monika Roeser. **Mercury Pollution from Artisanal Gold Mining in Block B, El Callao, Bolívar State, Venezuela**. In: Dynamics of mercury pollution on regional and global scales: Atmospheric processes and human exposures around the world. N. Pirrone &;K. Mahaffey (Eds),2005, 421-450. ISBN: 0-387-24493-X. https://doi.org/10.1007/b105709

Burger J., Stern A. H., Gochfeld M. **Mercury in commercial fish: optimizing individual choices to reduce risk**. Environ. Health Perspectives, 2005. V. 113, 3. 266–271. https://doi.org/10.1289/ehp.7315

Burger J., Campbell K.R., Campbell T.S. et al. **Use of Central Stonerollers (Cyprinidae: Campostoma anomalum) from Tennessee as a Bioindicator of Metal Contamination**. Environ Monit Assess, 2005, 110, 171. https://doi.org/10.1007/s10661-005-6689-8

Huang R.-J., Zhuang Z.-X., Wang Y.-R., Huang Z.-Y., Wang X.-R., C. Lee F.S. **An analytical study of bioaccumulation and the binding forms of mercury in rat body using thermolysis coupled with atomic absorption spectrometry**. Analytica Chimica Acta. 2005, V. 538, 1–2. 313–321. https://doi.org/10.1016/j.aca.2005.01.048

Wendroff A. P. **Magico-religious mercury use in Caribbean and Latino communities: pollution, persistence, and politics**. Environ. Practice. 2005. V. 7, 2. 87–96. https://doi.org/10.1017/S146604660505012X

2004

Halbach S., Welzl G. **In-situ measurements of low-level mercury vapor exposure from dental amalgam with Zeeman atomic absorption spectroscopy**. Toxicology Mechanisms and Methods. 2004, V. 14, № 5, 293–299. https://doi.org/10.1080/15376520490434548

Baltarowich L., Boyle B., Smolinske S., White S. R. **Mercury excretion in sweat**. Journal of Toxicology: Clinical Toxicology, 2004, V. 42, 5, p. 825. https://doi.org/10.1081/CLT-200026959

Minoia C., Nucera A., Merlini C., Ronchi A., Gatti A., Angeleri S., Grassi M., Guzzi G. **Estimates of mercury exposure in dental office: environmental and biological monitoring of Hg assessment among dental team.** RMZ – Materials and Geoenvironment. 2004, V. 51, № 1, 476–478. www.rmz-mg.com/letniki/rmz51/rmz51_0333-0560.pdf

Bigham G. N. **Assessment of exposure to mercury vapor in indoor air from spilled elemental mercury**. RMZ – Materials and Geoenvironment, 2004. – V. 51 № 1, 587–589. www.rmz-mg.com/letniki/rmz51/rmz51_0561-0755.pdf

G. Garetano. **Assessment of mercury vapor concentration in residential buildings using real time direct reading instruments**. Epidemiology, 2004, 15(4), 193-194.

2003

Burger J., Dixon C., Boring S. C., Gochfeld M. **Effect of deep-frying fish on risk from mercury**. Journal of Toxicology and Environmental Health, Part A. 2003, 66, № 11, 817–828. https://doi.org/10.1080/15287390306382

G. Guzzi, C. Minoia, P. Pigatto, A. Ronchi, A. Gatti, s. Angeleri, O. Formichi. **Safe dental amalgam removal in patients with immunotoxic reactions to mercury**. Toxicology Letters, V. 144, 1, 2003, s35-s36, ISSN 0378-4274. https://doi.org/10.1016/S0378-4274(03)90121-4

2002

Pogarev, S., Ryzhov, .V., Mashyanov, .N. et al. **Direct measurement of the mercury content of exhaled air: a new approach for determination of the mercury dose received.** Anal Bioanal Chem 374, 1039–1044 (2002). https://doi.org/10.1007/s00216-002-1601-7

2001

Bin C., Xiaoru W., Lee F.S.C. **Pyrolysis coupled with atomic absorption spectrometry for the determination of mercury in Chinese medicinal materials**. Analytica Chimica Acta, 2001, V. 447, 1–2, 161–169. https://doi.org/10.1016/S0003-2670(01)01218-1

1997

S.E. Pogarev, V.V Ryzhov, N.R. Mashyanov, M.B. Sobolev. **Mercury values in urine from inhabitants of St. Petersburg**. Water Air Soil Pollution, 1997, 97, 193–198. https://doi.org/10.1007/BF02409655

1995

Pogarev S.E., Ryzhov V.V., Dreval T.V., Mashyanov N.R. **Using Zeeman atomic absorption spectrometer for mercury detection in urine**. Journal of Ecological Chemistry, 1995, 4(2), 118–121.

Coal Combustion

2026

Shen, F., Zhang, Z., Liu, C., Zhang, D., Xiang, K., & Liu, H. **Anchoring active single CuS molecule on sulfur vacancy of MoS_2 for highly stable mercury adsorption at elevated-temperature**. Chemical Engineering Journal, 180728, 2026. https://doi:10.1016/j.cej.2026.180728

Liu, H., Zhou, J., Zhai, Y., Zhou, L., & Zhang, Z. **H_2S-driven reconstruction of CuO/CN heterojunctions into unsaturated sulfur-rich interfaces for cascade desulfurization and Hg0 removal**. Chemical Engineering Journal, 2026, 178152. https://doi:10.1016/j.cej.2026.178152

Liu, L., Xu, Y., Xu, L., Chen, C., Zhao, J., Ye, F., & Jiao, S. **Repurposing residual Cl groups in waste-derived hyper-cross-linked polymers into accessible selenium active sites for efficient elemental mercury capture**. Separation and Purification Technology, 2026, 138854. https://doi:10.1016/j.seppur.2026.138854

Shuaipeng, L. I. U., Dalai, L. I., Zihan, R. E. N., Jie, L. I. U., & Lidong, W. A. N. G. **Construction of calcium-manganese composite desulfurizer for synergistic removal of SO_2/Hg0**. Journal of Fuel Chemistry and Technology, 2026. 54(7), 20250277. https://doi:10.1016/S1872-5813(26)60656-1

Liu, H., Zhou, J., Chen, X., Zhai, Y., & Zhou, L. **Pyrolytic reconstruction-coupled H_2S conversion of spent Cu-loaded ion-exchange resin into confined sulfurized architectures for gaseous Hg^0 capture**. Chemical Engineering Journal, 2026, 179534. https://doi:10.1016/j.cej.2026.179534

Kumari, J., Agarwalla, H., Gangopadhyay, M., Masto, R. E., Senapati, R., & Kumar, M. **Investigation into pre-combustion mercury removal in high-ash Indian coal using float-sink and rapid pyrolysis**. International Journal of Coal Preparation and Utilization, 2026, 1-17. https://doi:10.1080/19392699.2026.2666888

Yang, Z., Hu, Y., Wang, Y., Sun, P., Nie, C., Guo, J., ... & Xu, Y. **Regeneration behavior of sulfur-modified waste-derived sorbents for Hg0 removal: enhanced performance and synergistic mechanism**. Fuel, 2026, 421, 139103. https://doi:10.1016/j.fuel.2026.139103

Weng, Q., Zhong, L., Wang, F., Li, P., Zhuo, Y., & Hu, P. **Catalytic oxidation of Hg^0 by bromide over Ce-modified regenerated V-Mo/Ti catalyst: a field study conducted in a 600 MW power plant unit**. Engineering Environment, 2026, 20(2), 20. https://doi:10.1007/s11783-026-2120-1

Yao, P., Xia, W., Ling, Y., Wu, J., Chen, L., Wang, H., ... & Lin, J. **Iodine substitution for bromine triggers dual-defect formation in $Bi_4O_5Br_2$ to enhance electron transfer and thereby optimize photocatalytic performance**. Separation and Purification Technology, 2026, 136993. https://doi:10.1016/j.seppur.2026.136993

Chen, C., Li, D., Yu, J., Che, K., Xie, J., Wu, R., & Chen, C. **Efficient Hg0 Removal Over a Novel Fly Ash-Based Adsorbent Treated by Heavy Liquid Separation Coupling Halide Modification**. Korean Journal of Chemical Engineering, 2026, 1-12. https://doi:10.1007/s11814-026-00651-0

Zhu, P., Meng, F., Yang, J., Yang, Z., Qu, W., & Li, H. **Detrimental effect of NO on Hg^0 adsorption over Se-based adsorbent and enhanced resistance by recombination with ZnS as sacrificial agent**. Fuel, 2026, 415, 138458. https://doi:10.1016/j.fuel.2026.138458

Wang, S., Qiang, D., Yan, H., Zhou, Z., Chen, M., Li, Z., & Zhao, S. **Synergistic sulfur-chlorine dual sites drive wide-temperature mercury purification in smelting flue gas**. Fuel, 2026, 416, 138482. https://doi:10.1016/j.fuel.2026.138482

Shen, Y., Xiang, Z., Wu, J., Wang, S., Huang, Y., Liang, S., ... & Zhao, X. **One-step hydrothermal synthesis of Sm-doped BiOIO3 for enhanced photocatalytic removal of mercury from flue gas**. Fuel, 2026, 414, 138316. https://doi:10.1016/j.fuel.2026.138316

Yang, W., Xiao, R., Luo, C., Sun, D., Zhao, Y., Zhang, J., & Xiong, Z. **Renewable magnetic biomass-based carbon aerogel materials for highly efficient removal of elemental mercury from combustion flue gas**. Fuel, 2026, 409, 137700. https://doi:10.1016/j.fuel.2025.137700

Li, L., Jiang, Z., Jiang, Y., Hu, Y., Wang, H., & Liu, X. **$M_{n3-x}Cr_x$-LDO, a new sorbent, for efficient elemental mercury removal from coal-fired flue gas**. The Canadian Journal of Chemical Engineering, 2026, 104(2), 640-650. https://doi:10.1002/cjce.70031

Chen, Y., Wu, X., Zhao, Z., Zhang, W., Wu, Q., Wang, S., ... & Xu, Y. **From waste alkaline copper etchant to mercury sorbents: Cascade etching of ZSM-5 for industrial flue gas Hg0 removal**. Journal of Environmental Management, 2026, 397, 128237. https://doi:10.1016/j.jenvman.2025.128237

Kong, W., Jiang, H., Chen, X., Chen, B., Wang, H., Shi, Z., ... & Lin, J. **Visible-light triggered Sm3+/Sm2+ valence cycling in BiOBr photocatalysts for enhanced electron transfer and mercury removal**. Journal of the Taiwan Institute of Chemical Engineers, 2026, 181, 106515. https://doi:10.1016/j.jtice.2025.106515

2025

Wan, Z., Li, H., Zhou, Y., Xia, K., Ding, Q., Hu, H., ... & Liu, X. **Fe-M (M= Co, Ni) Dual-Atom Metal-doped Carbon Nitride for Catalytic Reduction of $HgCl_2$**. Applied Catalysis B: Environment and Energy, 2025, 126201. https://doi:10.1016/j.apcatb.2025.126201

Shi, C., Hong, Q., Qi, Z., Ayiding, J., Li, S., Huang, W., ... & Xu, H. **Transition metal-coordinated metastable [MoS_4] 2-cluster for SO_2-facilitated gaseous mercury adsorption from wet flue gas**. Journal of Environmental Sciences, 2025. https://doi:10.1016/j.jes.2025.10.039

Lv, P., Zhou, J., Bin, Y., Li, Q., Zong, L., He, J., ... & Yang, S. **Novel recovery of the ability of sulfureted FeTi spinel to capture high concentrations of gaseous Hg0 from smelting flue gas by washing: Performance and mechanism**. Chemical Engineering Journal, 2025. https://doi:10.1016/j.cej.2025.169553

Xia, W., Kong, W., Chen, X., Chen, Q., Wu, J., Chen, L., ... & Qian, W. **Erbium-doped BiOCl with oxygen vacancies: Enhanced photocatalytic mercury removal via narrowed bandgap and improved charge separation**. Journal of Environmental Chemical Engineering, 12025, 3(6), 119697. https://doi:10.1016/j.jece.2025.119697

Li, C., Li, B., Wu, J., Zhao, J., & Liu, D. **CuS-decorated PbS hollow cubes for immobilizing gaseous elemental mercury**. Chemical Physics, 2025, 113034. https://doi:10.1016/j.chemphys.2025.113034

Yang, W., Xiao, R., Luo, C., Sun, D., Zhao, Y., Zhang, J., & Xiong, Z. **Chitosan enhanced magnetic cellulose-based carbon aerogels for elemental mercury removal from coal-fired flue gas**. Separation and Purification Technology, 2025, 136225. https://doi:10.1016/j.seppur.2025.136225

Zhu, X., Zhong, L., Xiao, Y., Liu, Y., Wang, J., Wang, T., & Pan, W. P. **Directional anchoring silver nanoparticle strategy to enhance MIL-101 (Cr) for mercury removal from coal-fired flue gas: Experimental and theoretical insights**. Fuel, 2025, 381, 133570. https://doi:10.1016/j.fuel.2024.133570

Li, B., Hou, Y., Zhang, S., Wang, B., Xu, W., Huang, Z., ... & Xie, K. **Modulating interfacial electron transfer over CoCeTiOx nanotube to boost sulfur tolerance for synergistic removal of NO and Hg0**. Journal of Rare Earths, 2025. https://doi:10.1016/j.jre.2025.09.002

Li, Z., Zhao, K., Yue, C., He, C., Li, P., Wang, X., ... & Wang, J. **Competition mechanism between Na release and Hg form evolution in high-temperature gasification condition revealed from bond distribution of coal slag**. Journal of the Energy Institute, 2025, 123, 102269. https://doi:10.1016/j.joei.2025.102269

Yuan, B., Lai, F., Yan, R., Yu, Q., Wang, T., Gao, H., & Hao, R. **Nonmetallic Boron-Doped LaMnO3 with Synergistic Enhancement in Oxidation Activity and Sulfur Resistance for Elemental Mercury Removal**. Ceramics International, 2025, 51(25), Part A. https://doi:10.1016/j.ceramint.2025.07.095

Li, L., Jiang, Z., Jiang, Y., Hu, Y., Wang, H., & Liu, X. **$Mn_{3-x}Cr_x$-LDO, a new sorbent, for efficient elemental mercury removal from coal-fired flue gas**. The Canadian Journal of Chemical Engineering, 2025. https://doi:10.1002/cjce.70031

Kumari, J., Agarwalla, H., Gangopadhyay, M., Masto, R. E., Senapati, R., & Kumar, M. **Distribution and mode of occurrence of mercury in Talcher and IB valley in India: insights on Hg environmental release and coal cleaning**. Environ Earth Sci, 2025, 84, 358. https://doi:10.1007/s12665-025-12368-0

Liu, Y., Guan, L., Tu, Y., Ruan, Z., Chen, J., Xu, Z., ... & Liu, Z. **Development of high-performance MoS~~2~~ with nanofoam architecture for gaseous elemental mercury sequestration: The key role of edge sulfur vacancy**. Chemical Engineering Journal, 2025, 503, 158786. https://doi:10.1016/j.cej.2024.158786

Guan, H., Zhong, L., & Pan, Wsemy. P. **Evaluation of measurement methods for the finest particle size distribution of condensable particulate matter in surface aggregation and spatial suspension state**. Separation and Purification Technology, 2025, 132673. https://doi:10.1016/j.seppur.2025.132673

Zhang, Q., Du, H., Zhang, A., Zheng, H., Li, H., Zhang, W., & Sun, Z. **Experimental and kinetic analysis of Hg0 removal by CoFe2O4 nanoparticles as an efficient activator of persulfate**. Atmospheric Pollution Research, 2025, 16(4), 102453. https://doi:10.1016/j.apr.2025.102453

Gao, J., Ran, Z., Ran, J., Huang, X., Ma, C., & Shao, Y. **Enhanced $La_{0.875}Ce_{0.125}CoO_3$ catalyst for Hg^0 removal from low-temperature flue gas: H_2O and SO_2 resistance performance and mechanism**. Fuel, 2025, 394, 135074. https://doi:10.1016/j.fuel.2025.135074

Jin, R., Zhu, M., Li, H., Tong, J., Zhou, Y., & Duan, Y. **Mechanochemical Semidry Modification of Fly Ash for Mercury Removal**. Asia-Pacific Journal of Chemical Engineering, 2025, e70023. https://doi:10.1002/apj.70023

Yang, Z., Yao, Q., Zhu, J., Zhang, Q., & Xu, Y. **Co-doped CeMnO3 perovskite for NO catalytic oxidation and co-benefit of elemental mercury removal from oxy-fuel combustion flue gas**. Chemical Engineering Journal, 2025, 163335. https://doi:10.1016/j.cej.2025.163335

Chen, R., Fan, Y., Song, J., Zhou, W., Peng, C., Li, M., ... & Sun, X. **Enhanced photocatalytic removal of mercury by Z scheme F-doped g-C3N4/TiO2 photocatalysts with rich nitrogen vacancies**. Chemical Physics Letters, 2025, 142220. https://doi:10.1016/j.cplett.2025.142220

Wei, X., Du, R., Zhao, R., Xu, Y., Wang, H., Jiang, B., ... & Wang, J. **Functionalized MnOx/Montmorillonite for High-efficiency Hg0 Removal in Simulated Flue Gas: Synergistic Hydrophobic and Polar Modifications.** Catalysis Letters, 2025, 155(7), 255. https://doi:10.1007/s10562-025-05090-w

2024

Kumari, J., Agarwalla, H., Masto, R. E., Gangopadhyay, M., Senapati, R. N., & Kumar, M. **Pre-combustion mercury removal potential of rapid pyrolysis in high ash coal and mode of occurrence**. Fuel, 2024, 378, 132948. https://doi:10.1016/j.fuel.2024.132948

Xin Yang, Caixia Yue, Yahui Wang, Jiancheng Wang, Liping Chang, Weiren Bao. **A study on the occurrence modes and distribution characteristics of sulfur and mercury in coal gasification slag**, Fuel, 2024, 374, 132423. https://doi:10.1016/j.fuel.2024.132423

Guan, H., Liu, Q., & Pan, W.P. **An assessment of inorganic components in condensable particulate matter as a function of surface aggregation, spatial suspension state and particle size**. Journal of Hazardous Materials, 2024, 134537. https://doi.org/10.1016/j.jhazmat.2024.134537

Qiu, L., Wang, C., Liu, F., Zheng, R., Xiao, R., Liu, X., ... & Chang, H. **Simultaneous catalytic oxidation of Hg0 and NO over CoxCuy metal oxides catalyst**. Catalysis Today, 2024, 439, 114801. https://doi.org/10.1016/j.cattod.2024.114801

Li, H., Sun, L., Liu, X., Tong, J., Zhou, Y., Jin, R., ... & Hu, H. **CaO/SiC alkaline fillers for High-Temperature reduction of mercury (II)**. Chemical Engineering Journal, 2024, 152236. https://doi.org/10.1016/j.cej.2024.152236

Wei, L., Jin, Z., Yue, L., Zhen, L., & Zhao, S. **Efficient mercury removal in high SO_2 flue gas using a CuS-BTC metal-organic frameworks**. J. of the Energy Institute, 101682. 2024. https://doi.org/10.1016/j.joei.2024.101682

Liu, H., Zhou, J., Li, B., Liu, Z., Zhou, L., & Wang, T. **Revealing the mechanism of structure-electron effect in mechanochemistry-driven CuS-coupled layered g-C_3N_4 Schottky-junction for enhanced demercuration**. Chemical Engineering Journal, 2024, 151807. https://doi.org/10.1016/j.cej.2024.151807

Li, C., Li, H., Shang, Y., Sun, L., & Duan, Y. **Reduction of Divalent Mercury to Elemental Mercury by Fe-and Ni-Based Reductants**. Energy & Fuels, 2024, 38(4). https://doi.org/10.1021/acs.energyfuels.3c04002

Hu, Y., Jiang, Z., Liu, X. et al. **Remove elemental mercury from simulated flue gas by CeO_2-modified MnOx/HZSM-5 adsorbent**. Environ Sci Pollut, 2024, Res 31, 11276–11284. https://doi.org/10.1007/s11356-024-31881-6

Wang, Y., Huo, Q., Chen, H., Feng, Y., Wang, J., Wang, S., ... & Bao, W. **High organic sulfur coal derived carbon-based sorbent for Hg0 capture from coal-fired flue gas**. Chemical Engineering Science, 2024, 287, 119703. https://doi.org/10.1016/j.ces.2024.119703

Liu, Y., Fang, X., Liu, Y., Zhang, T., Zhao, Y., Guan, Z., ... & Han, L. **Porous spherical indium oxide-loaded $BiOIO_3$ nanosheets to construct Z-scheme heterojunction to enhance photocatalytic activity**. Materials Today Communications, 2024, 38, 107997. https://doi.org/10.1016/j.mtcomm.2023.107997

Wang, J., Sun, Y., Zhu, B., Wang, T., Wang, Q., & Pan, W. P. **Effects of surface functionalizing and pore structure on dissolved mercury adsorption in gasoline by covalent sulphur-doped templated carbons: Experimental and theoretical insights**. Geoenergy Science and Engineering, 2024, 234, 212629. https://doi.org/10.1016/j.geoen.2023.212629

Liu, C., Kuang, M., Bao, C., Xiang, K., Shen, F., & Liu, H. **The design of high-entropy metal sulfides promising high-performance gaseous elemental mercury removal**. Fuel, 2024, 361, 130659. https://doi.org/10.1016/j.fuel.2023.130659

Li, H., Liu, X., Hu, H., Shang, Y., Tong, J., Shen, A., ... & Yang, W. **Selective adsorption characteristics of g-C_3N_4 for Hg0 and $HgCl_2$: A DFT study and experimental verification**. Separation and Purification Technology, 2024, 335, 126103. https://doi.org/10.1016/j.seppur.2023.126103

Li, Z., Zhao, J., Sun, D., Wu, X., Mei, T., Ye, Z., & Zhao, S. **Excellent Mercury Removal in High Sulfur Atmosphere Using a Novel CuS-BDC-2D Derived by Metal–Organic Frame**. Environmental Science & Technology, 2023, 58(1), 660-670. https://doi.org/10.1021/acs.est.3c06653

Lv, P., Chang, S., Hong, Q., Mei, J., & Yang, S. **Outstanding performance of reproducible sulfureted Fe-Ti spinel for the centralized control of Hg (both gaseous Hg0 and aqueous Hg2+) emitted from coal-fired power plants with seawater flue gas desulfurization**. Chemical Engineering Journal, 2024, 483, 148955. https://doi.org/10.1016/j.cej.2024.148955

Liu, C., Kuang, M., Bao, C., Xiang, K., Shen, F., & Liu, H. **The design of high-entropy metal sulfides promising high-performance gaseous elemental mercury removal**. Fuel, 2024, 361, 130659. https://doi.org/10.1016/j.fuel.2023.130659

Liang, P., Tian, M., Zhang, J., Li, S., Wang, X., Zhang, Y., ... & Li, X. **Effects of circulating ash and dolomite on mercury transition during coal step conversion of pyrolysis and combustion**. Journal of Analytical and Applied Pyrolysis, 2024, 177, 106309. https://doi.org/10.1016/j.jaap.2023.106309

Li, H., Sun, L., Liu, X., Ding, X., Shen, A., Jin, R., ... & Duan, Y. **High temperature reduction of divalent mercury to elemental mercury for Hg-CEMS**. Fuel, 2024, 358, 130232. https://doi.org/10.1016/j.fuel.2023.130232

Li, B., Hou, Y., Gao, J., Li, Y., Wang, B., Huang, Z., ... & Xie, K. **Rational amelioration of redox equilibrium by constructing hollow nanotube Co-Mn/TiO2 catalyst to boost simultaneous removal of NO and Hg0**. Applied Catalysis B: Environmental, 2024, 341, 123353. https://doi.org/10.1016/j.apcatb.2023.123353

Yang, Z., Xu, Y., Sun, X., Nie, C., Chen, M., Zhang, Q., & Luo, G**. Induced synthesis of SO_2-promoting and H_2O-tolerant sorbents for elemental mercury removal from flue gas**. Fuel, 2024, 357, 129881. https://doi.org/10.1016/j.fuel.2023.129881

Zhao, S., Sun, K., Xie, P., Zhang, S., Zhang, J., Zhu, Y., & Sun, Z. **Mercury removal from coal combustion flue gas by mechanochemically sulfur modified straw coke and its mercury stability**. Fuel, 2024, 355, 129498. https://doi.org/10.1016/j.fuel.2023.129498

2023

Liu, W., Min, X., Zhao, J., & Zhao, S. **Pilot-Scale Experimental Investigation on Dry Capture of Mercury and SO3 in Smelting Gas of Acid Making**. ACS omega, 8(45), 2023, 42741-42747. https://doi.org/10.1021/acsomega.3c05443

Hu, Y., Xu, Y., Zhang, Q., Chen, M., Wang, Y., & Luo, G. (2023). **In situ activation synthesis of tire-derived sorbents for efficient immobilization of elemental mercury from flue gas**. Chemical Engineering Journal, 2023, 476, 146558. https://doi.org/10.1016/j.cej.2023.146558

Jiang, Z., Hu, Y., Wang, R., Jiang, C., Liu, H., Wang, H., & Ye, D. **Elemental mercury removal over MnOx-CoOx-modified HZSM-5 adsorbents: Performance and characterizations**. Journal of the Energy Institute, 2023, 101394. https://doi.org/10.1016/j.joei.2023.101394

Jia, W., Li, Y., Chang, H., Liu, S., Cao, Y., & Chen, C. **New Insight into Hg0 Oxidation over a Mn-Doped VWTi Catalyst at a Wide Temperature Window**. Energy & Fuels, 2023, 37, 18, 14202–14212. https://doi.org/10.1021/acs.energyfuels.3c02540

Gao, S., Feng, J., Wang, X., Ye, D., & Hu, C. **Study on the roles of WO_3 and MoO_3 in the acid, redox, and re-oxidative features of CoOx adsorbents for Hg0 capture**. Journal of the Energy Institute, 2023, 101393. https://doi.org/10.1016/j.joei.2023.101393

Lv, P., Hong, Q., Chang, S., Mei, J., & Yang, S. **Sequential Capture of Gaseous Hg0 in Flue Gas and Aqueous Hg2+ in Desulfurization Solution by Cu–ZnS: Mechanisms, Kinetics, and Its Application in**

Hg Recovery as a Supplement of Selective Catalytic Reduction+ Wet Flue Gas Desulfurization. ACS ES&T Engineering, 2023. https://doi.org/10.1021/acsestengg.3c00184

Hu, Y., Jiang, Z., Wang, R., Gao, S., Liu, H., Wang, H., & Ye, D**. New insights into the effects of potassium species on the Hg0 removal performance of MnOx/HZSM-5 adsorbent**. Journal of the Energy Institute, 2023, 110, 101337. https://doi.org/10.1016/j.joei.2023.101337

Liu, Z., Zhou, J., Zhou, Q., Zhou, L., Lu, Y., Li, B., & Wang, T. **Inhibition of insoluble HgS and HgO generation and promotion of easy-soluble $HgCl_2$ production for the solution washing regeneration of mercury adsorbent in syngas**. Separation and Purification Technology, 2023, 325, 124640. https://doi.org/10.1016/j.seppur.2023.124640

Chen, H., Shi, C., Huo, Q., Shi, J., Wang, Y., Wang, J., ... & Wang, S. **Hg0 removal performance of magnetic raffinate slag-based sorbents: Mechanism study on oxidation modification**. Chemical Engineering Science, 2023, 281, 119126. https://doi.org/10.1016/j.ces.2023.119126

Zhang, Q., Zhang, A., Song, M., Meng, F., Tan, Z., Jing, M., ... & Sun, Z. **Fe Foam/Electroactivated Peroxydisulfate: A Highly Efficient Method to Remove Elemental Mercury**. Energy & Fuels, 2023. https://doi.org/10.1021/acs.energyfuels.3c01665

Yang, X., Zhang, Z., Wu, J., Zhu, Z., Zhang, T., He, P., ... & Qi, X. **Fabrication of $BiOIO_3$/g-C_3N_4/Er^{3+} containing oxygen vacancies for photocatalytic oxidation of gaseous elemental mercury**. Materials Research Bulletin, 2023, 167, 112376. https://doi.org/10.1016/j.materresbull.2023.112376

Li, J., Xiang, K., Liu, C., He, S., Shen, F., & Liu, H. **Detailed study on the regeneration of CoS_2 loaded porous carbon for elemental mercury removal from flue gas**. Chemical Engineering Journal, 2023, 469, 143807. https://doi.org/10.1016/j.cej.2023.143807

Chu, W., Liu, H., Zhang, Q., Li, F., Peng, C., Cheng, Z., ... & Zhang, H. **One-pot synthesis of double vacancy tazetta Bi_5O_7I for photocatalytic removal of mercury from flue gas**. Journal of Industrial and Engineering Chemistry, 2023 https://doi.org/10.1016/j.jiec.2023.05.024

Wang, C., Zhang, X., Zhang, A., Peng, D., Sun, Z., Tan, Z., ... & Zhang, Q. **Dual-S-scheme 3D Ag_2CO_3/BiOI/BiOCl microsphere heterojunction for improving photocatalytic mercury removal**. Materials Science in Semiconductor Processing, 2023, 164. https://doi.org/10.1016/j.mssp.2023.107599

Zhu, X., Liu, Y., Xiao, Y., Zhong, L., Wang, T., Wang, Y., & Pan, W.P. **Hg0 removal performance at low temperature by mesoporous MOF-derived Cr_2O_3 nanoparticle with enriched metal sites and oxygen vacancy: mechanism study on the role of oxygen species**. Chemical Engineering Journal, 2023, 143402. https://doi.org/10.1016/j.cej.2023.143402

Cao, Y., Wang, F., Peng, Q., Chen, C., Liu, S., Jia, W., & Hao, R. **Synergistic oxidation of NH_3 and Hg^0 over Cu-ATP catalyst: Influence of SO_2 and reaction mechanisms**. Fuel, 2023, 347, 128497. https://doi.org/10.1016/j.fuel.2023.128497

Huang, X., Ran, Z., He, Z., & Ran, J. **Mercury removal over Ce-doped $LaCoO_3$ supported on CeO_2 at low temperatures from coal combustion flue gas**. Fuel, 2023, 346, 128350. https://doi.org/10.1016/j.fuel.2023.128350

Xu, H., Hong, Q., Zhang, Z. Y., Cai, X., Fan, Y., Liu, Z., ... & Zhang, L. **SO_2-Driven In Situ Formation of Superstable $Hg_3Se_2Cl_2$ for Effective Flue Gas Mercury Removal**. Environmental Science & Technology, 2023. https://doi.org/10.1021/acs.est.2c09640

Ye, D., Gao, S., Wang, Y., Wang, X., Liu, X., Liu, H., & Wang, H. **New insights into the morphological effects of MnOx-CeOx binary mixed oxides on Hg0 capture**. Applied Surface Science, 2023, 613, 156035. https://doi.org/10.1016/j.apsusc.2022.156035

Chang, S., Lv, P., Qin, R., Mei, J., Hong, Q., & Yang, S. **Rapid and Selective Removal of Hg2+ by Copper Sulfides under Strongly Acidic Conditions: Mechanism, Kinetics, and Its Application in Recovering Hg from Waste Acids of Smelters**. Industrial & Engineering Chemistry Research, 2023, 62(8), 3567–3576. https://doi.org/10.1021/acs.iecr.2c04460

Yu, Q., Yang, X., Dong, Y., Qian, Z., Yuan, B., & Fu, D. **Microwave-boosted elemental mercury removal using natural low-grade pyrolusite**. Chemical Engineering Journal, 2023, 455, 140700. https://doi.org/10.1016/j.cej.2022.140700

Yuan, Q., Liu, X., Xiao, Y., Wang, T., Wang, J., & Zhang, Y. **Long-term environmental stability of bromide coupled mechanical modified fly ash after mercury adsorption**. Journal of Environmental Chemical Engineering, 2023, 109622. https://doi.org/10.1016/j.jece.2023.109622

Cao, Q., Wang, C., Tang, D., Zhang, X., Wu, P., Zhang, Y., ... & Zheng, Z. **Enhanced elemental mercury removal in coal-fired flue gas by modified algal waste-derived biochar: Performance and mechanism**. Journal of Environmental Management, 2023, 325, 116427. https://doi.org/10.1016/j.jenvman.2022.116427

Liu, Y., Xue, F., Wang, T., Wang, Q., & Pan, W.P. **Three-dimensional ordered zeolite-templated carbon with covalent sulfur for efficient removal of elemental mercury: Experimental study and molecular dynamic simulation**. Fuel Processing Technology, 2023, 239, 107540. https://doi.org/10.1016/j.fuproc.2022.107540

Liu, D., Yang, L., Wu, J., & Li, C. **Immobilization of gaseous elemental mercury using SnS_2-Wrapped magnetic Fe_3O_4 microspheres**. Journal of the Energy Institute, 2023, 106, 101148. https://doi.org/10.1016/j.joei.2022.11.008

Du, X., Li, C., Zhang, J., Zhu, Y., Liang, C., Huang, L., ... & Ma, Y. **Tunning active oxygen species for boosting Hg0 removal and SO_2-resistance of Mn-Fe oxides supported on $(NH_4)\ 2S_2O_8$ doping activated coke**. Journal of Hazardous Materials, 2023, 441, 129882. https://doi.org/10.1016/j.jhazmat.2022.129882

Hou, J., Wang, C., Ma, Y., Wang, J., Mei, J., & Yang, S. **Novel effects of copper precursors on the adsorption and desorption of elemental mercury over copper-based sulfides: Performance, mechanism, and kinetics**. Journal of the Taiwan Institute of Chemical Engineers, 2023, 142, 104636. https://doi.org/10.1016/j.jtice.2022.104636

Zhang, Q., Zhang, A., Li, H., Zhang, X., Sun, Z., Mei, Y., ... & Lu, H. **$FeNi_3$ foam as cathode catalyst in electrocatalytic peroxydisulfate system for enhanced Hg0 removal from simulated flue gas**. Journal of Environmental Chemical Engineering, 2023, 109384. https://doi.org/10.1016/j.jece.2023.109384

Guan, H., Liu, Q., Zhang, C., Wang, T., Wang, J., Wu, G., & Pan, W.P. **Formation and migration of trace elements in condensable particulate matter with the finest particle size distribution**. Journal of Hazardous Materials, 2023, 130750. https://doi.org/10.1016/j.jhazmat.2023.130750

Li, Z., Cai, Y., Sun, D., Ye, Z., & Zhao, S. **Efficient removal of Hg0 in flue gas using a novel Sn-based porphyrin polymer**. Science of The Total Environment, 2023, 161802. https://doi.org/10.1016/j.scitotenv.2023.161802

Ye, D., Gao, S., Jiang, Z., Wang, X., Wang, Y., Liu, H., & Wang, H. **Revealing insights into the correlations between structure and performance of CrOx monometallic oxide for Hg0 capture**. Journal of the Energy Institute, 2023, 101185. https://doi.org/10.1016/j.joei.2023.101185

Yang, J., Chen, H. Q., Qiao, F., Zhu, X., Wang, T., & Pan, W.P. **Engineering single-atom Pd sites in ZIF-derived porous Co_3O_4 for enhanced elementary mercury removal**. Separation and Purification Technology, 2023, 309, 123050. https://doi.org/10.1016/j.seppur.2022.123050

Gao, L., Yi, L., Xie, D., Wang, H., Li, C., Li, L., ... & Liu, Y. **Insight into the design and construction of Cr substituted Co-based columnar activated coke catalysts for effective and reliable removal of methylbenzene and Hg0 concurrently**. Fuel, 2023, 334, 126732. https://doi.org/10.1016/j.fuel.2022.126732

Liu, Z., Zhou, J., Zhou, Q., Zhou, L., Lu, Y., Li, B., & Wang, T. **Elution of Hg-containing substances from CeO_2-MnO_2/TiO_2 adsorbent in H_2S atmosphere by $CuCl_2$ solution**. Fuel, 2023, 331, 125933.

Chen, H., Zhan, L., Zhou, H., Li, Z., Chen, J., Sun, Z., ... & Yang, L. **Release and migration of Hg during desulfurization wastewater evaporation process: Whole process evaluation by experimental and theoretical study**. Journal of Hazardous Materials, 2023, 443, 130180. https://doi.org/10.1016/j.jhazmat.2022.130180

Cao, Y., Chen, C., Yang, W., Liu, S., Jia, W., Wang, F., & Liang, C. **Synergistic effect of copper and vanadium species on Hg0 removal of Cu-SCR catalyst: A DFT and experimental study**. Fuel, 2023, 333, 126527. https://doi.org/10.1016/j.fuel.2022.126527

Shen, F., He, S., Li, J., Wang, P., Liu, H., & Xiang, K. **Novel insight into elemental mercury removal by cobalt sulfide anchored porous carbon: Phase-dependent interfacial activity and mechanisms**. Fuel, 2023, 331, 125740. https://doi.org/10.1016/j.fuel.2022.125740

Liu, H., Wu, B., Wu, S., Liu, Y., Yoriya, S., Hu, C., ... & Qi, X. **Ion doping engineering of nickel-doped BiOIO3 nanosheets for gaining oxygen vacancy to enhance light absorption**. Fuel Processing Technology, 2023, 241, 107626. https://doi.org/10.1016/j.fuproc.2022.107626

Li, B., Hou, Y., Li, Y., Peng, K., Huang, Z., Wang, J., ... & Xie, K. **Synergistic removal of NO and Hg0 over Co-Mn/TiO_2 catalyst: High efficiency and in-depth reaction mechanism**. Fuel Processing Technology, 2023,240, 107578. https://doi.org/10.1016/j.fuproc.2022.107578

Jia, T., Gu, Y., Wu, J., & Li, F. **Copper Selenide Sensitized Low-Cost Porous Coordination Polymers Towards Efficient Capture Trace Gaseous Elemental Mercury**. Chemical Engineering Journal, 2023, 141288. https://doi.org/10.1016/j.cej.2023.141288

Li, J., Li, T., Li, F., Jia, T., Wu, J., Wu, S., ... & Dong, J. **Insights into the mechanism of elemental mercury removal via ferric chloride modified carbon Aerogel: An experimental and theoretical research**. Chemical Engineering Journal, 2023, 453, 139976. https://doi.org/10.1016/j.cej.2022.139976

Teng, Y., Li, P., Wang, G., Wang, C., Qi, N., Zhang, K., & Wang, M. **Effects of SCR catalyst breakage on mercury emission properties in coal-fired power plant: field testing and laboratory evaluation**. Applied Catalysis A: General, 2023, 650, 118962. https://doi.org/10.1016/j.apcata.2022.118962

Xiao, R., Zhang, Y., Wei, S., Chuai, X., Cui, X., Xiong, Z., ... & Zhao, Y. **A high efficiency and high capacity mercury adsorbent based on elemental selenium loaded SiO_2 and its application in coal-fired flue gas**. Chemical Engineering Journal, 2023, 453, 139946. https://doi.org/10.1016/j.cej.2022.139946

Luo, H., Zhao, S., Ma, A., Sun, K., Zhu, Y., & Sun, Z. **Influence of flue gas components on the mercury adsorption/oxidation by mechanochemical S_2Cl_2-modified sawdust coke**. Fuel, 2023, 336, 127154. https://doi.org/10.1016/j.fuel.2022.127154

2022

Zhang, H., Zhou, Y., Liu, T., Tian, X., Zhang, Y., Wang, J., ... & Liang, P. **Mercury release behaviors of Guizhou bituminous coal during co-pyrolysis: Influence of chlorella**. Journal of Environmental Sciences, 2022, 119, 23-32. https://doi.org/10.1016/j.jes.2021.07.031

Yang, J., Zhu, P., Meng, F., Guo, Q., He, T., Yang, Z., ... & Li, H. **Charge distribution modulation and morphology controlling of copper selenide for an enhanced elemental mercury adsorption activity in flue gas**. Chemical Engineering Journal, 2022, 442, 136145. https://doi.org/10.1016/j.cej.2022.136145

Hong, Q., Xu, H., Li, J., Huang, W., Qu, Z., & Yan, N. **Regulation of the Sulfur Environment in Clusters to Construct a Mn–Sn_2S_6 Framework for Mercury Bonding**. Environmental Science & Technology, 2022, 56(4), 2689-2698. https://doi.org/10.1021/acs.est.1c08529

Yang, J., Shi, N., Yan, B., Wang, T., & Pan, W. P. **Removal of elementary mercury by solid sorbents at different temperatures: Variation of the desorption activation energy through thermal desorption analysis**. Fuel, 2022, 307, 121889. https://doi.org/10.1016/j.fuel.2021.121889

Ma, Y., Wang, J., Gu, W., Zhang, X., Xu, H., Huang, W., ... & Wang, S. **New insights into elemental mercury removal from flue gas by a MoS_2 heterogeneous system**. Chemical Engineering Journal, 2022, 433, 134590. https://doi.org/10.1016/j.cej.2022.134590

Xiao, Y., Liu, Q., Huang, Y., Tian, F., Jia, T., Zhang, M., ... & Wang, X. **Coordinative sulfur site over flower-structured MoS_2 for efficient elemental mercury uptake from coal-fired flue gas**. Chemical Engineering Journal, 2022, 434, 134649. https://doi.org/10.1016/j.cej.2022.134649

Agarwalla, H., Senapati, R.N., & Das, T.B. **Investigation on mercury flow and emission in integrated primary iron production process**. Journal of Material Cycles and Waste Management, 2022, 24(6), 2636-2643. https://doi.org/10.1007/s10163-022-01510-w

Dobryakova, N. N., Golynets, O. S., Lavrinenko, A. A., Vishnevskaya, E. P., & Epshtein, S. A. **Standard test method for mercury content evaluation in solid mineral fuels**. Limnology and Freshwater Biology, 2022, 1374-1375. https://doi.org/10.31951/2658-3518-2022-A-3-1374

Zhang, J., Li, C., Du, X., Li, S., & Huang, L. **Recycle of waste activated coke as an efficient sorbent for Hg0 removal from coal-fired flue gas**. Fuel, 2022, 324, 124645. https://doi.org/10.1016/j.fuel.2022.124645

Zhao, S., Luo, H., Ma, A., Sun, Z., & Zheng, R. **Experimental study on mercury removal from coal-fired flue gas by sulfur modified biomass coke with mechanochemical method**. Fuel, 2022, 309, 122201. https://doi.org/10.1016/j.fuel.2021.122201

Wang, T., Lou, Y., Jiang, S., Wang, J., Zhang, Y., & Pan, W.P. **Distribution characteristics and environmental risk assessment of trace elements in desulfurization sludge from coal-fired power plants**. Fuel, 2022, 314, 122771. https://doi.org/10.1016/j.fuel.2021.122771

Chen, H., Cui, B., Yan, G., Wang, J., Lu, W., Li, Y., ... & Chang, L. **The application of coal liquefaction residue raffinate slag-based sorbents for elemental mercury removal from coal-fired flue gas**. Journal of Environmental Chemical Engineering, 2022, 10(1), 107045. https://doi.org/10.1016/j.jece.2021.107045

S. Rodríguez-Sánchez, P. Díaz, B. Ruiz, S. González, M. Díaz-Somoano, E. Fuente. **Food industrial biowaste-based magnetic activated carbons as sustainable adsorbents for anthropogenic mercury emissions**. J. Environmental Management, 2022, 312, 114897. https://doi.org/10.1016/j.jenvman.2022.114897

Shilin Zhao, Hui Luo, Anjun Ma, Wen Xie, Kang Sun, Zhiqiang Sun. **Mercury removal by the S_2Cl_2 modified biomass coke with mechanochemical versus impregnation method**. Chemical Engineering Journal, 2022, 435(3), 135073. https://doi.org/10.1016/j.cej.2022.135073

Qinyuan Hong, Haomiao Xu, Jiaxing Li, Wenjun Huang, Zan Qu, and Naiqiang Yan. **Regulation of the Sulfur Environment in Clusters to Construct a Mn–Sn_2S_6 Framework for Mercury Bonding**. Environ. Sci. Technol., 2022, 56, 4, 2689–2698. https://doi.org/10.1021/acs.est.1c08529

Dong Ye, Runxian Wang, Xiaoxiang Wang, Xin Liu, Hui Liu, Haining Wang. **Improvement in the Hg0 removal performance of CeO_2 by modifying with CuO**. Applied Surface Science, 2022, 579, 152200. https://doi.org/10.1016/j.apsusc.2021.152200

Xingyu Pang, Wei Liu, Haomiao Xu, Qinyuan Hong, Peng Cui, Wenjun Huang, Zan Qu, Naiqiang Yan. **Selective uptake of gaseous sulfur trioxide and mercury in ZnO-CuS composite at elevated temperatures from SO_2-rich flue gas**. Chemical Engineering J., 2022, 427, 132035. https://doi.org/10.1016/j.cej.2021.132035

Yili Zhang, Yongchun Zhao, Zhuo Xiong, Tian Gao, Rihong Xiao, Pengfei Liu, Jing Liu, Junying Zhang. **Photo- and thermo-catalytic mechanisms for elemental mercury removal by Ce doped commercial selective catalytic reduction catalyst (V_2O_5/TiO_2)**. Chemosphere, 2022, 287(3), 132336. https://doi.org/10.1016/j.chemosphere.2021.132336

Yili Zhang, Yongchun Zhao, Zhuo Xiong, Rihong Xiao, Tian Gao, Pengfei Liu, Jing Liu, Junying Zhang. **Enhanced photocatalytic Hg0 oxidation activity of iodine doped bismuth molybdate (Bi_2MoO_6) under visible light**. J. Colloid and Interface Science, 2022, 607(2), 1864-1875. https://doi.org/10.1016/j.jcis.2021.10.012

Longlong Wang, Leipeng Ji, Weiwei Li, Ke Zhang, Haomiao Xu, Wenjun Huang, Naiqiang Yan, Zan Qu. **Fabrication of Cu_2S hollow nanocages with enhanced high-temperature adsorption activity and recyclability for elemental mercury capture**. Chemical Engineering Journal, 2022, 427, 130935. https://doi.org/10.1016/j.cej.2021.130935

Shilin Zhao, Hui Luo, Anjun Ma, Wen Xie, Kang Sun, Zhiqiang Sun. **Influence of pyrolysis conditions on the mercury removal characteristics and physicochemical properties of biomass coke**. Fuel, 2022, 313, 122979. https://doi.org/10.1016/j.fuel.2021.122979

Qihuang Huo, Yahui Wang, Huijun Chen, Yu Feng, Lina Han, Wei Xie, Jiancheng Wang, Weiren Bao, Liping Chang, Kechang Xie. **Coal-based sulfur hybrid sorbent for removal of Hg0 from flue gas. Part 1. High inorganic sulfur coal**. Fuel, 2022, 312, 122973. https://doi.org/10.1016/j.fuel.2021.122973

Shilin Zhao, Hui Luo, Anjun Ma, Zhiqiang Sun, Rongzhang Zheng. **Experimental study on mercury removal from coal-fired flue gas by sulfur modified biomass coke with mechanochemical method**. Fuel, 2022, 309, 122201. https://doi.org/10.1016/j.fuel.2021.122201

Yongpeng Ma, Tengfei Xu, Xiaojing Zhang, Jiandong Wang, Haomiao Xu, Wenjun Huang, Hongzhong Zhang. **Excellent adsorption performance and capacity of modified layered ITQ-2 zeolites for elemental mercury removal and recycling from flue gas**. J. Hazardous Materials, 2022, 423(A), 127118. https://doi.org/10.1016/j.jhazmat.2021.127118

Min Zhou, Xialin Xie, Qianyan Liu, Meilin Zhang, Cheng Peng, Fangqin Li, Qizhen Liu, Yubao Song, Jiang Wu, Zhanwei Qiao. **Spherical In_2S3 anchored on g-C_3N_4 nanosheets for efficient elemental mercury removal in the wide temperature range**. Chemical Engineering J., 2022, 430(2), 132857. https://doi.org/10.1016/j.cej.2021.132857

Zijian Zhou, Lei Liu, Xiaowei Liu, Yue Zhou, Changqing Wang, Jingying Xu, Guozhang Chang, Minghou Xu. **Catalytic oxidation of Hg0 over Mn-doped CeO_2-ZrO_2 solid solution and MnOx/CeO_2-ZrO_2 supported catalysts: Characterization, catalytic activity and SO_2 resistance**. Fuel, 202, 310(A), 122317. https://doi.org/10.1016/j.fuel.2021.122317

Yuchi Chen, Honghu Li, Jingdong Zhang, Yanxiao Cao, Jiayi Li, Jiangxiu Yang, Fei Li, Chaoyang Liu, Yuan Wang, Yifei Long, Jiangjun Hu. **Enhanced performance and SO_2 tolerance of Ce modified TiO_2**

supported Mn-Sm catalyst for synergetic removal of Hg^0 and NO from flue gas. Fuel Processing Technology, 2022, 227, 107136. https://doi.org/10.1016/j.fuproc.2021.107136

Yang, Y., Liu, J., Ding, J., Yu, Y., & Zhang, J. **Mercury/oxygen reaction mechanism over $CuFe_2O_4$ catalyst**. J. Hazardous Materials, 2022, 424, 127556. https://doi.org/10.1016/j.jhazmat.2021.127556

Zhen Li, Daorong Sun, Weiqiao Liu, Jian Chen, Yongheng Zhai, Songjian Zhao. **Simultaneous removal of mercury and 1,2-dichlorobenzene from flue gas by Ru-based catalyst**. Fuel, 2022, 309, 122085. https://doi.org/10.1016/j.fuel.2021.122085

Anjun Ma, Shilin Zhao, Hui Luo, Zhiqiang Sun, Xingyu Xie, Yiren Liao, Xin Liang, Hesong Li. **Mercury removal from coal-fired flue gas of high-sulfur petroleum coke activated by pyrolysis and mechanochemical method**. Chemical Engineering J., 2022, 429, 132154. https://doi.org/10.1016/j.cej.2021.132154

Jing Yang, Heng-Quan Chen, Nan Shi, Tao Wang, Jun Liu, Wei-Ping Pan. **Porous carbon with uniformly distributed cobalt nanoparticles derived from ZIF-67 for efficient removal of vapor elemental mercury: A combined experimental and DFT study**. Chemical Engineering J., 2022, 428, 132095. https://doi.org/10.1016/j.cej.2021.132095

Anjun Ma, Shilin Zhao, Hui Luo, Zhiqiang Sun, Kang Sun, Hesong Li. **Mercury removal from coal-fired flue gas by the mechanochemical S/FeS modified high sulfur petroleum coke**. Fuel Processing Technology, 2022, 227, 107105. https://doi.org/10.1016/j.fuproc.2021.107105

2021

Chunhui Li, Jingxuan Shi, Qingyi Cao, Yating Luo, Handong Liang, Chuan Du, Yu Gao, Jiyan Shi. **Role of H^+, HF, SO_4^{2-} and kaolin in fixing Hg of coal fire sponge**. Sci. Total Environment, 2021, 772, 145510. https://doi.org/10.1016/j.scitotenv.2021.145510

Yingni Yu, Yingju Yang, Jing Liu, Junyan Ding, Junying Zhang. **Nanosized Cu-In spinel-type sulfides as efficient sorbents for elemental mercury removal from flue gas**. Sci. Total Environment, 2021, 796, 149094. https://doi.org/10.1016/j.scitotenv.2021.149094

Dongjing Liu, Lingtao Yang, Bin Li, Jiang Wu. **Gaseous mercury removal using biogenic porous silica modified with potassium bromide**. J. Energy Institute, 2021, 99, 161-169. https://doi.org/10.1016/j.joei.2021.09.004

Jiawei Wang, Liyuan Liu, Siqi Li, Yang Chen, Tao Wang, Yongsheng Zhang. **Mercury emissions and distribution in a waste incineration plant based on the 30B and Ontario Hydro methods**. J. Cleaner Production, 2021, 328, 2021, 129663. https://doi.org/10.1016/j.jclepro.2021.129663

Hridesh Agarwalla, Rabi Narayan Senapati, Tarit Baran Das. **Mercury emissions and partitioning from Indian coal-fired power plants.** J. Environ. Sciences, 2021, 100, 28-33. https://doi.org/10.1016/j.jes.2020.06.035.

Weimeng Zhao, Xinze Geng, Jincheng Lu, et al. **Mercury removal performance of brominated biomass activated carbon injection in simulated and coal-fired flue gas**. Fuel, 2021, 285. https://doi.org/10.1016/j.fuel.2020.119131

Zhen Zhang, Changsong Zhou, Hao Wu, Jing Liu, Hongmin Yang. **Molecular study of heterogeneous mercury conversion mechanism over Cu-MOFs: Oxidation pathway and effect of halogen**. Fuel, 2021, 290, 120030. https://doi.org/10.1016/j.fuel.2020.120030

Esbrí, J. M., Martinez-Coronado, A., Jurado, S. R., García-Noguero, E., Higueras, P. **Uncertainties in the Mercury Mass Balance in a Coal-Based IGCC Power Plant (Puertollano, Spain)**. Energy Engineering, 2021, 118(4), 1223–1235. https://doi.org/10.32604/EE.2021.015781

Qixin Zhou, Jinsong Zhou, Hui Cao, and Xinyu Xu. **Effects of CO and CO_2 on the Removal of Elemental Mercury over Carbonaceous Surfaces.** ACS Omega, 2021, 6(4,) 2916–2924. https://doi.org/10.1021/acsomega.0c05260

Bing Li, Hongliang Wang. **Effect of flue gas purification facilities of coal-fired power plant on mercury emission**. Energy Reports, 2021, 7(1), 190-196. https://doi.org/10.1016/j.egyr.2021.01.094

Jia, L., Fan, B., Zheng, X. et al. **Mercury emission and adsorption characteristics of fly ash in PC and CFB boilers**. Front. Energy, 2021, 15, 112–123. https://doi.org/10.1007/s11708-020-0682-3

Xinze Geng, Yufeng Duan, Shilin Zhao, Jiwei Hu, Weimeng Zhao. **Mechanism study of mechanochemical bromination on fly ash mercury removal adsorbent**. Chemosphere, 2021, 274, 129637. https://doi.org/10.1016/j.chemosphere.2021.129637

Lin Chang, Yongchun Zhao, Yi Zhang, Xuehai Yu, Zenghua Li, Bengen Gong, Huan Liu, Shuzhou Wei, Hao Wu, Junying Zhang. **Mercury species and potential leaching in sludge from coal-fired power plants**. J. Hazardous Materials, 2021, 403, 123927. https://doi.org/10.1016/j.jhazmat.2020.123927.

Li, Z., Chen, X., Liu, W. et al. **Soil and ambient air mercury as an indicator of coal-fired power plant emissions: a case study in North China**. Environ Sci Pollut Res, 2021, 28, 33146–33157. https://doi.org/10.1007/s11356-021-12842-9

Yue Peng, Nan Shi, Jiawei Wang, Tao Wang, Wei-Ping Pan. **Mercury speciation and size-specific distribution in filterable and condensable particulate matter from coal combustion**. Science of The Total Environment, 2021, 787, 147597. https://doi.org/10.1016/j.scitotenv.2021.147597

SU Yin-jiao, TENG Yang, ZHANG Kai, LIU Xuan, ZHANG Yong-hong, JI Jun-wei. **Effect of washing process on mercury migration and emission of Ningwu coal**. J. Fuel Chemistry and Technology, 2021, 49(3). https://doi.org/10.19906/j.cnki.JFCT.2021018

Li Shan, Li Chunhui, Liang Handong, Cao Qingyi, Gao Xiulong. **Traceability analysis of dustfall mercury and topsoil mercury in Wuda Coalfield**. J. Mining Science and Technology, 2021, 6(6). https://doi.org/10.19606/j.cnki.jmst.2021.06.002

PENG Yue, WANG Tao, WANG Jiawei, ZHANG Yongsheng PAN Weiping. **Evaluation of Sampling and Analytical Methods for Condensable Particulate Matter in Flue Gas during Coal Combustion**. J. North China Electric Power University, 2021, 48(3). https://doi.org/10.3969 /j.ISSN.1007－2691.2021.03.14

SU Yin-jiao, TENG Yang, ZHANG Kai, LI Li-feng, WANG Peng-cheng, LI Zhen. **Migration and transformation of mercury in WFGD slurry from a coal-fired power unit and the effect of additive on mercury stability in gypsum**. J. Fuel Chemistry and Technology, 2021, 49(7). https://doi.org/10.19906/j.cnki.JFCT.2021055

2020

Iris de Krom, Wijnand Bavius, Ruben Ziel, Elizabeth A. McGhee, Richard J. C. Brown, Igor Živković, Jan Gačnik, Vesna Fajon, Jože Kotnik, Milena Horvat, and Hugo Ent. **Comparability of calibration strategies for measuring mercury concentrations in gas emission sources and the atmosphere.** Atmos. Meas. Tech. Discuss., https://doi.org/10.5194/amt-2020-314, in review, 2020. https://doi.org/10.5194/amt-2020-314

Mathebula, M.W., Panichev, N. & Mandiwana, K. **Determination of mercury thermospecies in South African coals in the enhancement of mercury removal by pre-combustion technologies**. Sci Rep 10, 19282 (2020). https://doi.org/10.1038/s41598-020-76453-z

Qingyi Cao, Liu Yang, Yahui Qian, Handong Liang. **Study on Mercury Species in Coal and Pyrolysis-Based Mercury Removal before Utilization**. ACS Omega 2020, 5, 32, 20215–20223, https://doi.org/10.1021/acsomega.0c01875

Masoomi, I., Kamata, H., Yukimura, A., Ohtsubo, K., Schmid, M.O., & Scheffknecht, G. **Investigation on the behavior of mercury across the flue gas treatment of coal combustion power plants using a lab-scale firing system**. Fuel Processing Technology, 2020, 201, 106340. https://doi.org/10.1016/j.fuproc.2020.106340

2019

Shilin Zhao, Deepak Pudasainee, Yufeng Duan, Rajender Gupta, Meng Liu, Jianhong Lu. **A review on mercury in coal combustion process: Content and occurrence forms in coal, transformation, sampling methods, emission and control technologies**. Progress in Energy and Combustion Science, 2019, 73, 26-64. https://doi.org/10.1016/j.pecs.2019.02.001

Huo, Q., Wang, Y., Chen, H., Han, L., Wang, J., Bao, W., Chang, L., Xie, K. **ZnS/AC sorbent derived from the high sulfur petroleum coke for mercury removal**. Fuel Processing Technology, 2019191, 36–43. https://doi.org/10.1016/j.fuproc.2019.03.025

Fenghua Shen, Jing Liu, Yuchen Dong, Dawei Wu, Chenkai Gu, Zhen Zhang. **Elemental mercury removal from syngas by porous carbon-supported $CuCl_2$ sorbents**. Fuel, 2019, 239, 138-144. https://doi.org/10.1016/j.fuel.2018.11.016

Songtao Liu, Jianmeng Chen, Yue Cao, Haikuan Yang, Chuanmin Chen & Wenbo Jia. **Distribution of mercury in the combustion products from coal-fired power plants in Guizhou, southwest China**. J. Air & Waste Management Association, 2019, 69:2, 234-245. https://doi.org/10.1080/10962247.2018.1535461

Shan, B., Wang, G., Cao, F., Wu, D., Liang, W., & Sun, R. **Mercury emission from underground coal fires in the mining goaf of the Wuda Coalfield, China**. Ecotoxicology and Environmental Safety, 2019, 182, 109409. https://doi.org/10.1016/j.ecoenv.2019.109409

Tauanov, Z., Tsakiridis, P.E., Shah, D., & Inglezakis, V.J. **Synthetic sodalite doped with silver nanoparticles: Characterization and mercury (II) removal from aqueous solutions**. Journal of Environmental Science and Health, 2019, Part A, 54(9), 951-959. https://doi.org/10.1080/10934529.2019.1611129

2018

Shuang Bian, Jiawen Wu, Yongsheng Zhang, Tao Wang, Pauline Norris, and Wei-Ping Pan. **Increasing Recovery Ratios with an Improved European Community Bureau of Reference Method for Mercury Analysis in Flue Gas Desulfurization Gypsum**. Energy Fuels, 2018, 32, 8, 8340–8347. https://doi.org/10.1021/acs.energyfuels.8b0182

R. Zarzycki, M. Wichliński. **Cyclone furnace as a way for mercury removal from lignite**. MATEC Web of Conferences 240, 05037, 2018. https://doi.org/10.1051/matecconf/201824005037

Yanci Liang, Shuquan Zhu, Handong Liang. **Mercury enrichment in coal fire sponge in Wuda coalfield, Inner Mongolia of China**. Intern. J. Coal Geology (IF 5.692), 2018. https://doi.org/10.1016/j.coal.2018.03.006

Jian Cui, Lunbo Duan, Ying Jiang, Changsui Zhao, Edward John Anthony. **Migration and emission of mercury from circulating fluidized bed boilers co-firing petroleum coke and coal**. Fuel, 2018, 215(1), 638-646. https://doi.org/10.1016/j.fuel.2017.11.062

Zifeng Sui, Yongsheng Zhang, Tao Wang, Hong Xu, Boning Zhang, Martin Cohron, Chuanchuan Cai, Pauline Norris, and Wei-Ping Pan. **Full-Scale Demonstration of Enzyme-Treated Coal Combustion for**

Improved Energy Efficiency and Reduced Air Pollution. Energy Fuels, 2018, 32(6), 6584–6594. https://doi.org/10.1021/acs.energyfuels.8b00743

2017

Pudasainee D., Seo Y. C., Sung J. H., Jang H. N., Gupta R. **Mercury co-beneficial capture in air pollution control devices of coal-fired power plants.** Internat. J. Coal Geology. 2017. V. 170. 48–53. https://doi.org/10.1016/j.coal.2016.08.013

Han, L., Li, Q., Chen, S. et al. **A Magnetically Recoverable Fe_3O_4–NH_2–Pd Sorbent for Capture of Mercury from Coal Derived Fuel Gas**. Sci Rep, 2017, 7, 7448. https://doi.org/10.1038/s41598-017-07802-8

Zhang, Y., Zhao, L., Guo, R., Wang, J., Cao, Y., Orndorff, W., & Pan, W. **Influences of NO on mercury adsorption characteristics for HBr modified fly ash**. International Journal of Coal Geology, 2017, 170, 77–83. https://doi.org/10.1016/j.coal.2016.10.002

Xu H., Ma Y., Huang W., Mei J., Zhao S., Qu Z., Yan N. **Stabilization of mercury over Mn-based oxides: speciation and reactivity by temperature programmed desorption analysis**. J. Hazardous Materials. 2017. V. 321. 745–752. https://doi.org/10.1016/j.jhazmat.2016.09.030

Nikolay R. Mashyanov, Sergey E. Pogarev, Elena G. Panova, Nikolay Panichev, Vladimir Ryzhov. **Determination of mercury thermospecies in coal**. 2017. Fuel 203, 973–980. https://doi.org/10.1016/j.fuel.2017.03.085

Dou, W., Zhou, Z., Ye, J., Huang, R., Jiang, L.M., Chen, G., & Fei, X. **Reusing effluent of flue gas desulfurization wastewater treatment process as an economical calcium source for phosphorus removal**. Water Science and Technology, 2017, 76(6), 1429-1435. https://doi.org/10.2166/wst.2017.336

2016

Allan Kolker and Chris van Alphen. **Collaborative studies for mercury characterization in coal and coal combustion products, Republic of South Africa** (ver. 2.0, May 2016): U.S. Geological Survey Open-File Report 2014–1153, 47 p. https://doi.org/10.3133/ofr20141153.

An J., Jiang Y., Zhang Z., Ma X., Wang T., Shang K., Li J. **Oxidation characteristics of mixed NO and Hg0 in coal-fired flue gas using active species injection generated by surface discharge plasma**. Chemical Engineering Journal. 2016. V. 288. 298–304. https://doi.org/10.1016/j.cej.2015.11.048

Belo L. P., Elliott L. K., Stanger R. J., Wall T. F. **Impacts of sulfur oxides on mercury speciation and capture by fly ash during oxy-fuel PC combustion**. Energy & Fuels. 2016. V. 30, 10. 8658–8664. https://doi.org/10.1021/acs.energyfuels.6b01078

Chen W., Pei Y., Huang W., Qu Z., Hu X., Yan N. **Novel effective catalyst for elemental mercury removal from coal-fired flue gas and the mechanism investigation**. Environmental Science & Technology. 2016. V. 50, 5. 2564–2572. https://doi.org/10.1021/acs.est.5b05564

Yang, Y., Xu, W., Wu, Y., Xiong, J., Zhu, T., Zhou, X., & Tong, L. **Effect of HBr formation on mercury oxidation via $CaBr_2$ addition to coal during combustion**. RSC Advances, 2016, 6(64), 59009–59015. https://doi.org/10.1039/c6ra11468g

Y. Liang, H. Liang, S. Zhu. **Mercury emission from spontaneously ignited coal gangue hill in Wuda coalfield, Inner Mongolia, China**. Fuel, 2016, 182, 525-530. https://doi.org/10.1016/j.fuel.2016.05.092.

A. Weigelt, F. Slemr, R. Ebinghaus, N. Pirrone, J. Bieser, J. Bödewadt, G. Esposito, P.F. J. van Velthoven. **Mercury emissions of a coal-fired power plant in Germany**. Atmos. Chem. Phys., 2016, 16, 13653–13668. https://doi.org/10.5194/acp-16-13653-2016

M. Wichliński, R. Kobyłecki, Z. Bis. **Application of low-temperature thermal treatment for the reduction of mercury content in coal**. E3S Web of Conferences, 1000101, SEED, 2016. https://doi.org/10.1051/e3sconf/20161000101

R. Kobyłecki, M. Wichliński, G. Wielgosz, Zbigniew Bis. **Emission of mercury from Polish large-scale utility boilers**. J. Ecological Engineering, 2016, 17, 5, 128–131. https://doi.org/10.12911/22998993/65461

Jun Zhong1 Fangyong Li, Junhui Fan. **Thermal Stability and Adsorption of Mercury Compounds in Fly Ash**. The Open Fuels & Energy Science Journal, 2016, 9, 114-125. https://doi.org/10.2174/1876973X01609010114

Cho, J.H., Eom, Y., & Lee, T.G. **Stabilization/solidification of mercury-contaminated waste ash using calcium sodium phosphate (CNP) and magnesium potassium phosphate (MKP) processes**. Journal of hazardous materials, 2014, 278, 474-482. https://doi.org/10.1016/j.jhazmat.2014.06.026

2015

Chang H., Wu Q., Zhang T., Li M., Sun X., Li J., Duan L., Hao J. **Design strategies for CeO_2-MoO_3 catalysts for $DeNO_x$ and Hg^0 oxidation in the presence of HCl: The significance of the surface acid-base properties**. Environmental Science & Technology, 2015, 49(20), 12388–12394. https://doi.org/10.1021/acs.est.5b02520

Chen Q., Wang S., Li Y., Zhang N., Zhao B., Zhuo Y., Chen C. **Influence of flue gas desulfurization gypsum amendments on heavy metal distribution in reclaimed sodic soils**. Environmental Engineering Science, 2015, 32(6), 470–478. https://doi.org/10.1089/ees.2014.0129

Dranga B.-A., Koeser H. **Increased co-oxidation activity for mercury under hot and cold site coal power plant conditions – Preparation and evaluation of Au/TiO_2-coated SCR-$DeNO_x$ catalysts**. Applied Catalysis B: Environmental, 2015, 166–167, 302–312. https://doi.org/10.1016/j.apcatb.2014.11.018

Du W., Yin L., Zhuo Y., Xu Q., Liang Zhang, Chen C. **Performance of CuO_x–neutral Al_2O_3 sorbents on mercury removal from simulated coal combustion flue gas**. Fuel Processing Technology. – 2015. – V. 131. – P. 403–408. https://doi.org/10.1016/j.fuproc.2014.11.039

Farr S., Heidel B., Hilber M., Scheffknecht G. **Influence of flue-gas components on mercury removal and retention in dual-loop flue-gas desulphurization**. Energy & Fuels. – 2015. – V. 29. – № 7. – P. 4418–4427. https://doi.org/10.1021/acs.energyfuels.5b00899

Fernández-Miranda N., Rumayor M., Lopez-Anton M. A., Díaz-Somoano M., Martínez-Tarazona M. R. **Mercury retention by fly ashes from oxy-fuel processes**. Energy & Fuels. – 2015. – V. 29. – № 4. – P. 2227–2233. https://doi.org/10.1021/ef502827g

Gu Y., Zhang Y., Lin L., Xu H., Orndorff W., Pan W.-P. **Evaluation of elemental mercury adsorption by fly ash modified with ammonium bromide**. Journal of Thermal Analysis and Calorimetry, 2015, 119(3). 1663–1672. https://doi.org/10.1007/s10973-014-4376-0

Li J., Chen J., Yu Y., He C. **Fe–Mn–Ce/ceramic powder composite catalyst for highly volatile elemental mercury removal in simulated coal-fired flue gas**. Journal of Industrial and Engineering Chemistry, 2015, 25, 352–358. https://doi.org/10.1016/j.jiec.2014.11.015

Li Q., Jiang J., Duan L., Deng J., Jiang L., Li Z., Hao J. **Improving the removal efficiency of elemental mercury by pre-existing aerosol particles in double dielectric barrier discharge treatments**. Aerosol and Air Quality Research, 2015, 15(4), 1506–1513. https://doi.org/10.4209/aaqr.2014.12.0334

Liao Y., Xiong S., Dang H., Xiao X., Yang S., Wong P. K. **The centralized control of elemental mercury emission from the flue gas by a magnetic rengenerable Fe–Ti–Mn spinel**. Journal of Hazardous Materials, 2015, 299, 740–746. https://doi.org/10.1016/j.jhazmat.2015.07.083

Liu R., Xu W., Tong L., Zhu T. **Role of NO in Hg^0 oxidation over a commercial selective catalytic reduction catalyst V_2O_5–WO_3/TiO_2**. Journal of Environmental Sciences, 2015, 38, 126–132. https://doi.org/10.1016/j.jes.2015.04.023

Liu R., Xu W., Tong L., Zhu T. **Mechanism of Hg^0 oxidation in the presence of HCl over a commercial V_2O_5–WO_3/TiO_2 SCR catalyst**. Journal of Environmental Sciences, 2015, 36, 76–83. https://doi.org/10.1016/j.jes.2015.03.031

Ma J., Li C., Zhao L., Zhang J., Song J., Zeng G., Zhang X., Xie Y. **Study on removal of elemental mercury from simulated flue gas over activated coke treated by acid**. Applied Surface Science, 2015, 329, 292–300. https://doi.org/10.1016/j.apsusc.2014.11.090

Min H.K., Ahmad T., Kim K.Y., Oh K.J., Lee S.S. **Mercury adsorption characteristics of sulphur-impregnated activated carbon pellets for the flue gas condition of a cement-manufacturing process**. Adsorption Science & Technology, 2015, 33(3), 251–262. https://doi.org/10.1260/0263-6174.33.3.251

Qu Z., Xie J., Xu H., Chen W., Yan N. **Regenerable sorbent with a high capacity for elemental mercury removal and recycling from the simulated flue gas at a low temperature**. Energy & Fuels, 2015, 29(10), 6187−6196. https://doi.org/10.1021/acs.energyfuels.5b00868

Rumayor M., Díaz-Somoano M., López-Antón M.A., Ochoa-González R., Martínez-Tarazona M.R. **Temperature programmed desorption as a tool for the identification of mercury fate in wet-desulphurization systems.** Fuel, 2015, 148, 98–103. https://doi.org/10.1016/j.fuel.2015.01.101

Rumayor M., Diaz-Somoano M., Lopez-Anton M.A., Martinez-Tarazona M.R. **Application of thermal desorption for the identification of mercury species in solids derived from coal utilization.** Chemosphere, 2015, 119, 459–465. https://doi.org/10.1016/j.chemosphere.2014.07.010

Rumayor M., Fernandez-Miranda N., Lopez-Anton M.A., Diaz-Somoano M., Martinez-Tarazona M.R. **Application of mercury temperature programmed desorption (HgTPD) to ascertain mercury/char interactions.** Fuel Processing Technology, 2015, 132, 9–14. https://doi.org/10.1016/j.fuproc.2014.12.032

Shao Y., Li J., Chang H., Peng Y., Deng Y. **The outstanding performance of LDH-derived mixed oxide Mn/$CoAlO_x$ for Hg^0 oxidation.** Catalysis Science & Technology, 2015, 5(7), 3536–3544. https://doi.org/10.1039/c5cy00298b

Stanger R., Ting T., Spero C., Wall T. **Oxyfuel derived CO_2 compression experiments with NO_x, SO_x and mercury removal –Experiments involving compression of slip-streams from the Callide Oxyfuel Project (COP).** International Journal of Greenhouse Gas Control, 2015, 41, 50–59. https://doi.org/10.1016/j.ijggc.2015.06.022

Stanger R., Ting T., Belo L., Spero C., Wall T. **Field measurements of NO_x and mercury from oxy-fuel compression condensates at the Callide Oxyfuel Project.** International Journal of Greenhouse Gas Control, 2015, 42, 485–493. https://doi.org/10.1016/j.ijggc.2015.08.021

Sui Z., Zhang Y., Li W., Orndorff W., Cao Y., Pan W.-P. **Partitioning effect of mercury content and speciation in gypsum slurry as a function of time.** J. Thermal Analysis and Calorimetry, 2015, 119(3), 1611–1618. https://doi.org/10.1007/s10973-015-4403-9

Wang Q., Liu Y., Wang H., Weng X., Wu Z. **Mercury re-emission behaviors in magnesium-based wet flue gas desulfurization process: the effects of oxidation inhibitors.** Energy & Fuels, 2015, 29(4), 2610–2615. https://doi.org/10.1021/ef502833k

Weng X., Mei R., Shi M., Kong Q., Liu Y., Wu Z. **$CePO_4$ catalyst for elemental mercury removal in simulated coal-fired flue gas.** Energy & Fuels, 2015, 29(5), 3359–3365. https://doi.org/10.1021/acs.energyfuels.5b00119

Wu H., Li C., Zhao L., Zhang J., Zeng G., Xie Y., Zhang X., Wang Y. **Removal of gaseous elemental mercury by cylindrical activated coke loaded with CoO_x-CeO_2 from simulated coal combustion flue gas.** Energy & Fuels, 2015, 29(10), 6747–6757. https://doi.org/10.1021/acs.energyfuels.5b00871

Xie Y., Li C., Zhao L., Zhang J., Zeng G., Zhang X., Zhang W., Ta S. **Experimental study on Hg^0 removal from flue gas over columnar MnO_x-CeO_2 activated coke.** Applied Surface Science, 2015,333, 59–67. https://doi.org/10.1016/j.apsusc.2015.01.234

Xu H., Qu Z., Zhao S., Mei J., Quan F., Yan N. **Different crystal-forms of one-dimensional MnO_2 nanomaterials for the catalytic oxidation and adsorption of elemental mercury.** Journal of Hazardous Materials, 2015, 299, 86–93. https://doi.org/10.1016/j.jhazmat.2015.06.012

Xu W., Tong L., Qi H., Zhou X., Wang J., Zhu T. **Effect of flue gas components on Hg^0 oxidation over Fe/HZSM-5 catalyst.** Industrial & Engineering Chemistry Research, 2015, 54(1), 146–152. https://doi.org/10.1021/ie504090m

Yue C., Wang J., Han L., Chang L., Hu Y., Wang H. **Effects of pretreatment of Pd/AC sorbents on the removal of Hg^0 from coal derived fuel gas.** Fuel Processing Technology, 2015, 135, 125–132. https://doi.org/10.1016/j.fuproc.2014.11.038

Zhang X., Li C., Zhao L., Zhang J., Zeng G. **Simultaneous removal of elemental mercury and NO from flue gas by V_2O_5–CeO_2/TiO_2 catalysts.** Applied Surface Science, 2015, 347, 392–400. https://doi.org/10.1016/j.apsusc.2015.04.039

Zhang Y., Nakano J., Liu L., Wang X., Zhang Z. **Trace element partitioning behavior of coal gangue-fired CFB plant: experimental and equilibrium calculation.** Environmental Science and Pollution Research, 2015, 22(20), 15469–15478. https://doi.org/10.1007/s11356-015-4738-6

Zhang Y., Zhao L., Guo R., Song N., Wang J., Cao Y., Orndorff W., Pan W. **Mercury adsorption characteristics of HBr-modified fly ash in an entrained-flow reactor.** Journal of Environmental Sciences, 2015, 33, 156–162. https://doi.org/10.1016/j.jes.2015.01.011

Zhao B., Liu X.-W Zhou Z.-J., Shao H.-Z., Wang C., Xu M.-H. **Mercury oxidized by V_2O_5–MoO_3/TiO_2 under multiple components flue gas: An actual coal-fired power plant test and a laboratory experiment.** Fuel Processing Technology, 2015, 134, 198–204. https://doi.org/10.1016/j.fuproc.2015.01.034

Zhao L., Li C., Zhang J., Zhang X., Zhan F., Ma J., Xie Y., Zeng G. **Promotional effect of CeO_2 modified support on V_2O_5–WO_3/TiO_2 catalyst for elemental mercury oxidation in simulated coal-fired flue gas.** Fuel, 2015, 153, 361–369. https://doi.org/10.1016/j.fuel.2015.03.001

Zhou Z.-J., Liu X.-W., Zhao B., Chen Z.-G., Shao H.-Z., Wang L.-L., Xu M.-H. **Effects of existing energy saving and air pollution control devices on mercury removal in coal-fired power plants.** Fuel Processing Technology, 2015, 131, 99–108. https://doi.org/10.1016/j.fuproc.2014.11.014

2014

Liang, Y., Liang, H., & Zhu, S. **Mercury emission from coal seam fire at Wuda, Inner Mongolia, China**. Atmospheric Environment, 83, 176–184. https://doi.org/10.1016/j.atmosenv.2013.09.001

Wu, G. F., Liu, Q. C., Lan, Y. P., Yang, J., & Gao, W. **Study on the Form of Mercury in Chinese Coa**l. Advanced Materials Research, 2013, 838–841, 1903–1906. https://doi.org/10.4028/www.scientific.net/amr.838-841.1903

An J. T., Shang K. F., Lu N., Jiang Y. Z., Wang T. C., Li J., Wu Y. **Oxidation of elemental mercury by active species generated from a surface dielectric barrier discharge plasma reactor**. Plasma Chemistry and Plasma Processing, 2014, 34(1), 217–228. https://doi.org/10.1007/s11090-013-9496-y

An J., Shang K., Lu N., Jiang Y., Wang T., Li J., Wu Y. **Performance evaluation of non-thermal plasma injection for elemental mercury oxidation in a simulated flue gas**. J. Hazardous Materials, 2014, 268, 237–245. https://doi.org/10.1016/j.jhazmat.2014.01.022

An J., Shang K., Lu N., Hong Y., Jiang Y., Li J., Wu Y. **Performance of dielectric barrier discharge reactors on elemental mercury oxidation in the coal-fired flue gas**. Plasma Science and Technology, 2014, 16(2), 155–160. https://doi.org/10.1088/1009-0630/16/2/12

Chen C., Liu S., Gao Y., Liu Y. **Investigation on mercury reemission from limestone-gypsum wet flue gas desulfurization slurry**. The Scientific World Journal, 2014, 2014, Article ID 581724. https://doi.org/10.1155/2014/581724

Chen W., Ma Y., Yan N., Qu Z., Yang S., Xie J., Guo Y., Hu L., Jia J. **The co-benefit of elemental mercury oxidation and slip ammonia abatement with SCR-Plus catalysts**. Fuel, 2014, 133, 263–269. https://doi.org/10.1016/j.fuel.2014.04.086

Díaz-Somoano, M., Popa, A., Rumayor, M., López-Antón, M.A., Martínez-Tarazona, M.R., Ilia, G. **Gaseous mercury behaviour in the presence of functionalized styrene–divinylbenzene copolymers**. Pure and Applied Chemistry, 2014, 86(11), 1861–1869. https://doi.org/10.1515/pac-2014-0614

Du, W., Yin, L., Zhuo, Y., Xu, Q., Zhang, L., & Chen, C. **Catalytic Oxidation and Adsorption of Elemental Mercury over $CuCl_2$-Impregnated Sorbents**. Industrial & Engineering Chemistry Research, 2014, 53(2), 582–591. https://doi.org/10.1021/ie4016073

Du W., Yin L.B., Zhuo Y.Q., Xu Q.S., Zhang L., Chen C.H. **Factors affecting mercury oxidation by SCR catalysts**. Advanced Materials Research, 2014, 986–987, 755–760. https://doi.org/10.4028/www.scientific.net/AMR.986-987.755

Jang H. N., Kim J. H., Jung S. J., Back S. K., Sung J. H., Kim S. H., Seo Y. C., Keel S. I., Liu X. **Mercury emission characteristics from coal combustion by supplying oxygen and carbon dioxide with limestone injection**. Fuel Processing Technology, 2014, 125, 217–222. https://doi.org/10.1016/j.fuproc.2014.04.003

Li D., Han J., Han L., Wang J., Chang L. **Pd/activated carbon sorbents for mid-temperature capture of mercury from coal-derived fuel gas**. J. Environmental Sciences, 2014, 26(7), 1497–1504. https://doi.org/10.1016/j.jes.2014.05.016

Liu Y., Wang Q., Mei R., Wang H., Weng X., Wu Z. **Mercury re-emission in flue gas multipollutants simultaneous absorption system**. Environmental Science & Technology, 2014, 48(23), 14025–14030. https://doi.org/10.1021/es503837w

Ma Y., Qu Z., Xu H., Wang W., Yan N. **Investigation on mercury removal method from flue gas in the presence of sulfur dioxide**. J. Hazardous Materials, 2014, 279, 289–295. https://doi.org/10.1016/j.jhazmat.2014.07.012

Song N., Teng Y., Wang J., Liu Z., Orndorff W., Pan W.P. **Effect of modified fly ash with hydrogen bromide on the adsorption efficiency of elemental mercury**. J. Thermal Analysis and Calorimetry, 2014, 116(3), 1189–1195. https://doi.org/10.1007/s10973-014-3701-y

Ting T., Stanger R., Wall T. **Oxyfuel CO_2 compression: The gas phase reaction of elemental mercury and NOx at high pressure and absorption into nitric acid**. Internat. J. Greenhouse Gas Control, 2014, 29, 125–134. https://doi.org/10.1016/j.ijggc.2014.08.007

Wang Q., Liu Y., Yang Z., Wang H., Weng X., Wang Y., Wu Z. **Study of mercury re-emission in a simulated WFGD solution containing thiocyanate and sulfide ions**. Fuel, 2014, 134, 588–594. https://doi.org/10.1016/j.fuel.2014.05.080

Wichliński, M., Kobyłecki, R., & Bis, Z. **The release of mercury from polish coals during thermal treatment of fuels in a fluidized bed reactor**. Fuel Processing Technology, 2014, 119, 92–97. https://doi.org/10.1016/j.fuproc.2013.10.011

Xu W., Wang H., Zhou X., Zhu T. **CuO/TiO_2 catalysts for gas-phase Hg0 catalytic oxidation**. Chemical Engineering Journal, 2014, 243, 380–385. https://doi.org/10.1016/j.cej.2013.12.014

Zhang Y., Duan W., Liu Z., Cao Y. **Effects of modified fly ash on mercury adsorption ability in an entrained-flow reactor**. Fuel, 2014, 128, 274–280. https://doi.org/10.1016/j.fuel.2014.03.009

Zhao S., Ma Y., Qu Z., Yan N., Li Z., Xie J., Chen W. **The performance of Ag doped V_2O_5–TiO_2 catalyst on the catalytic oxidation of gaseous elemental mercury**. Catalysis Science & Technology, 2014, 4(11), 4036–4044. https://doi.org/10.1039/c4cy00410h

Zhou X., Xu W., Wang H., Tong L., Qi H., Zhu T. **The enhance effect of atomic Cl in $CuCl_2$/TiO_2 catalyst for Hg^0 catalytic oxidation**. Chemical Engineering Journal,2014, 254, 82–87. https://doi.org/10.1016/j.cej.2014.05.093

Zhuang Z. K., Yang Z. M., Zhou S. Y., Wang H. Q., Sun C. L., Wu Z. B. **Synergistic photocatalytic oxidation and adsorption of elemental mercury by carbon modified titanium dioxide nanotubes under visible light LED irradiation**. Chemical Engineering Journal, 2014, 253, 16–23. https://doi.org/10.1016/j.cej.2014.05.010

2013

Xu, W., Wang, H., Zhu, T., Kuang, J., Jing, P. **Mercury removal from coal combustion flue gas by modified fly ash. J. Environmental Sciences**, 2013, 25(2), 393–398. https://doi.org/10.1016/s1001-0742(12)60065-5

Chen C. M., Jiang L. X., Liu S. T., Jiang Y. Z. **Control of Hg0 re-emission from simulated wet flue gas desulfurization liquors by sodium dithiocarbamate**. Advanced Materials Research, 2013, 610–613, 1473–1477. https://doi.org/10.4028/www.scientific.net/AMR.610-613.1473

Fang P., Cen Ch., Wang X., Tang Z., Tang Zh., Chen D. **Simultaneous removal of SO_2, NO and Hg0 by wet scrubbing using urea+$KMnO_4$ solution**. Fuel Processing Technology, 2013, 106, 645–653. https://doi.org/10.1016/j.fuproc.2012.09.060

Gao W., Liu Q., Wu C. Y., Li H., Li Y., Yang J., Wu G. **Kinetics of mercury oxidation in the presence of hydrochloric acid and oxygen over a commercial SCR catalyst**. Chemical Engineering Journal, 2013, 220, 53–60. https://doi.org/10.1016/j.cej.2013.01.062

Hower J. C., O'Keefe J. M., Henke K. R., Wagner N. J., Copley G., Blake D. R., Garrison T., Oliveira M. L. S., Kautzmann R. M., Silva L. F. O. **Gaseous emissions and sublimates from the Truman Shepherd coal fire, Floyd County, Kentucky: a re-investigation following attempted mitigation of the fire**. International Journal of Coal Geology, 2013, 116, 63–74. https://doi.org/10.1016/j.coal.2013.06.007

Jiang Y. Z., An J. T., Jiang D. W., Li J., Wu Y. **Oxidation of elemental mercury by active species injection from a surface discharge reactor**. Advanced Materials Research, 2013, 807–809, 1294–1297. https://doi.org/10.4028/www.scientific.net/AMR.807-809.1294

Jiang Y., An J., Shang K., Jiang D., Li J., Lu N., Wu Y. **Oxidation efficiency of elemental mercury in two DBD plasma reactors.** Journal of Physics, Conference Series, 2013, 418. – № 1, Paper 012118. https://doi.org/10.1088/1742-6596/418/1/012118

Jiang Y. Z., Chen C. M., Jiang L. X., Liu S. T., Wang B. **Study of mercury re-emission from simulated wet flue gas desulfurization liquors**. Advanced Materials Research, 2013, 610–613, 2033–2037. https://doi.org/10.4028/www.scientific.net/AMR.610-613.2033

Liu X., Wang S., Zhang L., Wu Y., Duan L., Hao J. **Speciation of mercury in FGD gypsum and mercury emission during the wallboard production in China**. Fuel, 2013, 111, 621–627. https://doi.org/10.1016/j.fuel.2013.03.052

Meeks N. D., Davis E., Jain M., Skandan G., Bhattacharyya D. **Mercury removal by thiol-functionalized metal oxide–carbon black sorbent and mixed-matrix membranes.** Environmental Progress & Sustainable Energy, 2013, 32, № 3, 705–714. https://doi.org/10.1002/ep.11690

Spörl R., Belo L., Shah K., Stanger R., Giniyatullin R., Maier J., Wall T., Scheffknecht G. **Mercury emissions and removal by ash in coal-fired oxy-fuel combustion**. Energy & Fuels, 2013, 28, № 1, 123–135. https://doi.org/10.1021/ef4014604

Stergaršek A., Horvat M., Frkal P., Guevara S. R., Kocjančič R. **Removal of Hg0 in wet FGD by catalytic oxidation with air – A contribution to the development of a process chemical model**. Fuel, 2013, 107, 183–191. https://doi.org/10.1016/j.fuel.2012.08.001

Zhan F., Li C., Zeng G., Tao S., Xiao Y., Zhang X., Zhao L., Zhang J., Ma J. **Experimental study on oxidation of elemental mercury by UV/Fenton system**. Chemical Engineering Journal, 2013, 232, 81–88. https://doi.org/10.1016/j.cej.2013.07.082

Cho, J.H., Eom, Y., Park, J.M., Lee, S.B., Hong, J.H., & Lee, T.G. **Mercury leaching characteristics of waste treatment residues generated from various sources in Korea**. Waste management,2013, 33(7), 1675-1681. https://doi.org/10.1016/j.wasman.2013.04.004

2012

Reynaldo Forte, Jr., Jeffrey V. Ryan, Travis P. Johnson, and Peter H. Kariher. **The United States Environmental Protection Agency's Mercury Measurement Toolkit: An Introduction**. Energy Fuels 2012, 26, 4643−4646/ dx. https://doi.org/10.1021/ef3001949

Alexander Romanov, Lesley Sloss, and Wojciech Jozewicz. **Mercury Emissions from the Coal-Fired Energy Generation Sector of the Russian Federation.** Energy Fuels 2012, 26, 4647−4654dx https://doi.org/10.1021/ef300398q

Lesley Sloss. **Legislation, standards and methods for mercury emissions control**. CCC/195 ISBN 978-92-9029-515-0. https://www.iea-coal.org/report/legislation-standards-and-methods-for-mercury-emission-control-ccc-195/

Engle M. A., Radke L. F., Heffern E. L., O'Keefe J. M. K., Hower J. C., Smeltzer C. D., Hower J. M., Olea R. A., Eatwell R. J., Blake D. R., Emsbo-Mattingly S. D., Stout S. A., Queen g., Aggen K. L., Kolker A., Prakash A., Henke K. R., Stracher G. B., Schroeder P. A., Román-Colón Y., ter Schure A. **Gas emissions, minerals, and tars associated with three coal fires, Powder River Basin, USA**. Sci. Total Environment, 2012, 420, 146–159. https://doi.org/10.1016/j.scitotenv.2012.01.037

Fang P., Cen C.-P., Tang Z.-J. **Experimental study on the oxidative absorption of Hg0 by $KMnO_4$ solution. Chemical Engineering Journal**, 2012, 198–199, 95–102. https://doi.org/10.1016/j.cej.2012.05.072

Li J.-R., He C., Shang X.-S., Chen J.-S., Yu X.-W., Yao Y.-J. **Oxidation efficiency of elemental mercury in flue gas by SCR De-NOx catalysts. J. Fuel Chemistry and Technology**, 2012, 40, № 2, 241-246. https://doi.org/10.1016/S1872-5813(12)60012-7

Pudasainee D., Kim J.-H., Yoon Y.-S., Seo Y.-C. **Oxidation, reemission and mass distribution of mercury in bituminous coal-fired power plants with SCR, CS-ESP and wet FGD**. Fuelб 2012, 93, 312–318. https://doi.org/10.1016/j.fuel.2011.10.012

Schuetze J., Kunth D., Weissbach S., Koeser H. **Mercury vapor pressure of flue gas desulfurization scrubber suspensions: effects of pH level, gypsum, and iron**. Environmental Science & Technology, 2012, 46. – № 5, 3008–3013. https://doi.org/10.1021/es203605h

Tao S., Li C., Fan X., Zeng G., Lu P., Zhang X., Wen Q., Zhao W., Luo D., Fan C. **Activated coke impregnated with cerium chloride used for elemental mercury removal from simulated flue gas**. Chemical Engineering Journal, 2012, 210, 547–556. https://doi.org/10.1016/j.cej.2012.09.028

Wang F., Wang H., Zhang F., Zhu J., Tian G., Liu Y., Mao J. **SO2/Hg removal from flue gas by dry FGD.** Internat J. Mining Science and Technology, 2012, 22, 1, 107–110. https://doi.org/10.1016/j.ijmst.2011.06.011

Zhang L., Zhuo Y., Du W., Tao Y., Chen C., Xu X. **Hg removal characteristics of noncarbon sorbents in a fixed-bed reactor**. Industrial & Engineering Chemistry Research, 2012, 51, 14, 5292–5298. https://doi.org/10.1021/ie202750c

Zheng Y., Jensen A. D., Windelin C., Jensen F. **Dynamic measurement of mercury adsorption and oxidation on activated carbon in simulated cement kiln flue gas.** Fuel, 2012, 93, 649–657. https://doi.org/10.1016/j.fuel.2011.09.053

2011

Qi Wan, Lei Duan, Kebin He, Junhua Li. **Removal of gaseous elemental mercury over a CeO_2–WO_3/TiO_2 nanocomposite in simulated coal-fired flue gas**. Chemical Engineering Journal 170 (2011) 512–517. https://doi.org/10.1016/j.cej.2010.11.060

Wan Q., Duan L., Li J., Chen L., He K., Hao J. **Deactivation performance and mechanism of alkali (earth) metals on V_2O_5–WO_3/TiO_2 catalyst for oxidation of gaseous elemental mercury in simulated coal-fired flue gas.** Catalysis Today, 2011, 175, № 1, 189–195. https://doi.org/10.1016/j.cattod.2011.03.011

Wang J., Wang W., Xu W., Wang X., Zhao S. **Mercury removals by existing pollutants control devices of four coal-fired power plants in China**. Journal of Environmental Sciences (China), 2011, 23, № 11, 1839–1844. https://doi.org/10.1016/S1001-0742(10)60584-0

Wang H., Zhou S., Xiao L., Wang Y., Liu Y., Wu Z. **Titania nanotubes – A unique photocatalyst and adsorbent for elemental mercury removal**. Catalysis Today, 2011, 175, № 1, 202–208. https://doi.org/10.1016/j.cattod.2011.03.006

Wang J., Xu W., Wang X., Wang W. **Measurement of Mercury in Flue Gas Based on an Aluminum Matrix Sorbent**. TheScientificWorldJOURNAL,2011, 11, 2469–2479. https://doi.org/10.1100/2011/756264

2010

Tanja Ljubic Mlakar, Milena Horvat, Tomaz Vuk, Andrej Stergaršek, Joze Kotnik, Janja Tratnik, Vesna Fajon. **Mercury species, mass flows and processes in a cement plant.** Fuel, 2010, 89, 1936–1945. https://doi.org/10.1016/j.fuel.2010.01.009

Zan Qu, Naiqiang Yan, Ping Liu, Yongfu Guo, Jinping Jia. **Oxidation and Stabilization of Elemental Mercury from Coal-Fired Flue Gas by Sulfur Monobromide**. Environ. Sci. Technol. 2010, 44, 3889–3894. https://doi.org/10.1021/es903955s

Wang J., Wang W., Xu W., Wang X., Zhao S. **Mercury removals by existing pollutants control devices of four coal-fired power plants in China**. Journal of Environmental Sciences (China), 2011, 23, № 11, 1839–1844. https://doi.org/10.1016/S1001-0742(10)60584-0

Gostomczyk M. A., Lech-Brzyk K. **Flue-gas cleaning after thermal waste utilization**. Environment Protection Engineering, 2010, 36, 4, 57–64. http://epe.pwr.wroc.pl/2010/gostomczyk_4-2010.pdf

Kim J.-H., Park J.-M., Lee S.-B., Pudasainee P., Seo Y.-C. **Anthropogenic mercury emission inventory with emission factors and total emission in Korea**. Atmospheric Environment, 2010, 44, 23, 2714–2721. https://doi.org/10.1016/j.atmosenv.2010.04.037

Kolesnikov S.P., Rubinskaya T.Ya., Strel'tsova E.D., Leonova M.Yu., Korshevets I.K., Zykov A.M., Anichkov S.N. **Distribution of mercury in the combustion products of coal dust in boilers with liquid slag removal**. Solid Fuel Chemistry, 2010, 44, 1, 50–55. https://doi.org/10.3103/S0361521910010106

Qu Z., Yan N., Liu P., Guo Y., Jia J. **Oxidation and stabilization of elemental mercury from coal-fired flue gas by sulfur monobromide**. Environmental Science & Technology, 2010, 44, 10, 3889–3894. https://doi.org/10.1021/es903955s

Stergaršek A., Horvat M., Frkal P., Stergaršek J. **Removal of Hg0 from flue gases in wet FGD by catalytic oxidation with air – An experimental study**. Fuel, 2010, 89, № 11, 3167–3177. https://doi.org/10.1016/j.fuel.2010.04.006

Constance Senior, Martin Denison, Michael Bockelie, Adel Sarofim, Joseph Siperstein, Qiao He. **Modeling of thermal desorption of Hg from activated carbon**. Fuel Processing Technology 91 (2010) 1282–1287. https://doi.org/10.1016/j.fuproc.2010.04.010

Pudasainee, D., Kim, J.H., Lee, S.H., Park, J. M., Jang, H.N., Song, G.J. & Seo, Y.C. **Hazardous air pollutants emission from coal and oil-fired power plants**. Asia-Pacific Journal of Chemical Engineering, 2010, 5(2), 299-303. https://doi.org/10.1002/apj.268

2009

Brown T., Lissianski V. **First full-scale demonstration of mercury control in Alberta**. Fuel Processing Technology, 2009, 90, № 11, 1412–1418. https://doi.org/10.1016/j.fuproc.2009.08.005

Pudasainee D., Kim J.-H., Seo Y.-C. **Mercury emission trend influenced by stringent air pollutants regulation for coal-fired power plants in Korea**. Atmospheric Environment, 2009, 43, № 39, 6254–6259. https://doi.org/10.1016/j.atmosenv.2009.06.007

Qiao S., Chen J., Li J., Qu Z., Liu P., Yan N., Jia J. **Adsorption and catalytic oxidation of gaseous elemental mercury in flue gas over MnOx/Alumina. Industrial** & Engineering Chemistry Research, 2009, 48, № 7, 3317–3322. https://doi.org/10.1021/ie801478w

2008

Cheng C.-M., Lin H.-T., Wang Q., Chen C.-W., Wang C.-W., Liu M.-C., Chen C.-K., Pan W.-P. **Experiences in long-term evaluation of mercury emission monitoring systems**. Energy & Fuels, 2008, 22. № 5, 3040–3049. https://doi.org/10.1021/ef7006744

Eom Y., Jeon S. H., Ngo T. A., Kim J., Lee T. G. **Heterogeneous mercury reaction on a selective catalytic reduction (SCR) catalyst.** Catalysis Letters, 2008, 121, № 3–4, 219–225. https://doi.org/10.1007/s10562-007-9317-0

2007

Li Y., Wu C.-Y. **Kinetic study for photocatalytic oxidation of elemental mercury on a SiO_2–TiO_2 nanocomposite**. Environmental Engineering Science, 2007, 24, № 1, 3–12. https://doi.org/10.1089/ees.2007.24.3

2004

Sholupov S., Pogarev S., Ryzhov V., Mashyanov N., Stroganov A. **Zeeman atomic absorption spectrometer RA-915+ for direct determination of mercury in air and complex matrix samples**. Fuel Processing Technology, 2004, V. 85, № 6–7, 473–485. https://doi.org/10.1016/j.fuproc.2003.11.003

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2026

Kumari, J., Agarwalla, H., Gangopadhyay, M., Masto, R. E., Senapati, R., & Kumar, M. **Investigation into pre-combustion mercury removal in high-ash Indian coal using float-sink and rapid pyrolysis**. International Journal of Coal Preparation and Utilization, 2026, 1-17. https://doi:10.1080/19392699.2026.2666888

2025

Kumari, J., Agarwalla, H., Gangopadhyay, M., Masto, R. E., Senapati, R., & Kumar, M. **Distribution and mode of occurrence of mercury in Talcher and IB valley in India: insights on Hg environmental release and coal cleaning**. Environ Earth Sci, 2025, 84, 358. https://doi:10.1007/s12665-025-12368-0

Li, Z., Zhao, K., Yue, C., He, C., Li, P., Wang, X., ... & Wang, J. **Competition mechanism between Na release and Hg form evolution in high-temperature gasification condition revealed from bond distribution of coal slag**. Journal of the Energy Institute, 2025, 102269. https://doi:10.1016/j.joei.2025.102269

Yue, C., Zhu, Y., Chen, H., Wang, Y., Yan, L., Li, P., ... & Wang, J. **The migration and transformation behavior of mercury and sulfur during coal pyrolysis.** Fuel, 2025, 395, 135220. https://doi:10.1016/j.fuel.2025.135220

2024

Kumari, J., Agarwalla, H., Masto, R. E., Gangopadhyay, M., Senapati, R. N., & Kumar, M. **Pre-combustion mercury removal potential of rapid pyrolysis in high ash coal and mode of occurrence**. Fuel, 2024, 378, 132948. https://doi:10.1016/j.fuel.2024.132948

Xin Yang, Caixia Yue, Yahui Wang, Jiancheng Wang, Liping Chang, Weiren Bao. **A study on the occurrence modes and distribution characteristics of sulfur and mercury in coal gasification slag**, Fuel, 2024, 374, 132423. https://doi:10.1016/j.fuel.2024.132423

2023

Liu, Z., Cai, Y., Zhou, J., Zhou, Q., Zhou, L., Lu, Y., Li, B., & Wang, T. **Performance of $CuCl_2$ solution on washing regeneration of activated carbon for mercury removal in syngas**. Separation and Purification Technology, 2023, 327. https://doi.org/10.1016/j.seppur.2023.124983

Liu, Z., Zhou, J., Zhou, Q., Zhou, L., Lu, Y., Li, B., & Wang, T. **Inhibition of insoluble HgS and HgO generation and promotion of easy-soluble $HgCl_2$ production for the solution washing regeneration of mercury adsorbent in syngas**. Separation and Purification Technology, 2023, 325, 124640. https://doi.org/10.1016/j.seppur.2023.124640

Vöröš, D., Baizán, P. D., Slavíček, K., Díaz-Somoano, M., & Geršlová, E. **Mercury occurrence and speciation in sediments from hard coal mining in Czechia**. Journal of Hazardous Materials, 2023, 132204. https://doi.org/10.1016/j.jhazmat.2023.132204

Sun, R., Cao, F., Dai, S., Shan, B., Qi, C., Xu, Z., ... & Chen, J. **Atmospheric Mercury Isotope Shifts in Response to Mercury Emissions from Underground Coal Fires**. Environmental Science & Technology, 2023. https://doi.org/10.1021/acs.est.2c08637

Hong, X., Yang, K., Liang, H., Wang, X. **Enrichment of Sulfate, Acidity and Mercury in Native outcrop coal, Southwest China**. Environ Sci Pollut Res, 2023 1-14. https://doi.org/10.1007/s11356-023-26791-y

2022

Krasilova, V. A., Dobryakova, N. N., & Epshtein, S. A. **Determination of mercury content in coal dust collected from coals**. Limnology and Freshwater Biology, 2022, 1371-1373. https://doi.org/10.31951/2658-3518-2022-A-3-1371

Dobryakova, N. N., Golynets, O. S., Lavrinenko, A. A., Vishnevskaya, E. P., & Epshtein, S. A. **Standard test method for mercury content evaluation in solid mineral fuels**. Limnology and Freshwater Biology, 2022, 1374-1375. https://doi.org/10.31951/2658-3518-2022-A-3-1374

Huawei Zhang, Yifan Zhou, Ting Liu, Xiaopeng Tian, Yuhan Zhang, Juan Wang, Mingzhu Zhang, Thipphasone Phoutthavong, Peng Liang. **Mercury release behaviors of Guizhou bituminous coal during co-pyrolysis: Influence of chlorella**. J. Environmental Sciences, 2022. https://doi.org/10.1016/j.jes.2021.07.031

2021

Hridesh Agarwalla, Rabi Narayan Senapati, Tarit Baran Das. **Mercury emissions and partitioning from Indian coal-fired power plants.** J. Environ. Sciences, 2021, 100, 28-33. https://doi.org/10.1016/j.jes.2020.06.035.

Esbrí, J. M., Martinez-Coronado, A., Jurado, S. R., García-Noguero, E., Higueras, P. **Uncertainties in the Mercury Mass Balance in a Coal-Based IGCC Power Plant (Puertollano, Spain)**. Energy Engineering, 2021, 118(4), 1223–1235. https://doi.org/10.32604/EE.2021.015781

Su Y, Liu X, Teng Y, Zhang K. **A Preliminary Study on Dependence of Mercury Distribution on the Degree of Coalification in Ningwu Coalfield, Shanxi, China**. Energies, 2021, 14(11), 3119. https://doi.org/10.3390/en14113119

Su, Y.; Liu, X.; Teng, Y.; Zhang, K. **Mercury Speciation in Various Coals Based on Sequential Chemical Extraction and Thermal Analysis Methods**. Energies, 2021, 14, 2361. https://doi.org/10.3390/en14092361

Lin Chang, Yongchun Zhao, Yi Zhang, Xuehai Yu, Zenghua Li, Bengen Gong, Huan Liu, Shuzhou Wei, Hao Wu, Junying Zhang. **Mercury species and potential leaching in sludge from coal-fired power plants**. J. Hazardous Materials, 2021, 403, 123927. https://doi.org/10.1016/j.jhazmat.2020.123927.

Qixin Zhou, Jinsong Zhou, Hui Cao, and Xinyu Xu. **Effects of CO and CO_2 on the Removal of Elemental Mercury over Carbonaceous Surfaces.** ACS Omega, 2021, 6(4,) 2916–2924. https://doi.org/10.1021/acsomega.0c05260

Bing Li, Hongliang Wang. **Effect of flue gas purification facilities of coal-fired power plant on mercury emission**. Energy Reports, 2021, 7(1), 190-196. https://doi.org/10.1016/j.egyr.2021.01.094

GOST R 59176-2020 Solid mineral fuels. Determination of mercury by direct combustion. National Standard, 2021. https://docs.cntd.ru/document/573219579

2020

Mathebula, M.W., Panichev, N. & Mandiwana, K. **Determination of mercury thermospecies in South African coals in the enhancement of mercury removal by pre-combustion technologies**. Sci Rep 10, 2020, 19282. https://doi.org/10.1038/s41598-020-76453-z

Qingyi Cao, Liu Yang, Yahui Qian, Handong Liang. **Study on Mercury Species in Coal and Pyrolysis-Based Mercury Removal before Utilization**. ACS Omega 2020, 5(32), 20215–20223. https://doi.org/10.1021/acsomega.0c01875

N. Mashyanov, S. Pogarev, V. Ryzhov, E. Panova. **Mercury occurrence in shungite and coal**. EGU2020-5488. https://doi.org/10.5194/egusphere-egu2020-5488

2019

Shilin Zhao, Deepak Pudasainee, Yufeng Duan, Rajender Gupta, Meng Liu, Jianhong Lu. **A review on mercury in coal combustion process: Content and occurrence forms in coal, transformation, sampling methods, emission and control technologies**. Progress in Energy and Combustion Science, 2019, 73, 26-64. https://doi.org/10.1016/j.pecs.2019.02.001

Songtao Liu, Jianmeng Chen, Yue Cao, Haikuan Yang, Chuanmin Chen & Wenbo Jia. **Distribution of mercury in the combustion products from coal-fired power plants in Guizhou, southwest China**. Journal of the Air & Waste Management Association, 2019, 9(2), 234-245. https://doi.org/10.1080/10962247.2018.1535461

Fenghua Shen, Jing Liu, Yuchen Dong, Dawei Wu, Chenkai Gu, Zhen Zhang. **Elemental mercury removal from syngas by porous carbon-supported $CuCl_2$ sorbents**. Fuel, 2019, 239, 138-144. https://doi.org/10.1016/j.fuel.2018.11.016

Shan, B., Wang, G., Cao, F., Wu, D., Liang, W., & Sun, R. **Mercury emission from underground coal fires in the mining goaf of the Wuda Coalfield, China**. Ecotoxicology and Environmental Safety, 2019, 182, 109409. https://doi.org/10.1016/j.ecoenv.2019.109409

Zhonggen Li, Xinyu Li, Jing Liu, Leiming Zhang, Ji Chen, Xinbin Feng. **Stone coal as a potential atmospheric mercury source in Da-Ba-Shan mountain areas, China**. Internat. J. Coal Geology, 2019, 206, 21-30. https://doi.org/10.1016/j.coal.2019.03.007.

2018

Yanci Liang, Shuquan Zhu, Handong Liang. **Mercury enrichment in coal fire sponge in Wuda coalfield, Inner Mongolia of China**. Intern. J. Coal Geology (IF 5.692), 2018. https://doi.org/10.1016/j.coal.2018.03.006

R. Zarzycki, M. Wichliński. **Cyclone furnace as a way for mercury removal from lignite**. MATEC Web of Conferences 240, 05037, 2018. https://doi.org/10.1051/matecconf/201824005037

Zifeng Sui, Yongsheng Zhang, Tao Wang, Hong Xu, Boning Zhang, Martin Cohron, Chuanchuan Cai, Pauline Norris, and Wei-Ping Pan. **Full-Scale Demonstration of Enzyme-Treated Coal Combustion for Improved Energy Efficiency and Reduced Air Pollution**. Energy Fuels, 2018, 32(6), 6584–6594. https://doi.org/10.1021/acs.energyfuels.8b00743

2017

Nikolay R. Mashyanov, Sergey E. Pogarev, Elena G. Panova, Nikolay Panichev, Vladimir Ryzhov. **Determination of mercury thermospecies in coal**. Fuel, 2017 203, 973–980. https://doi.org/10.1016/j.fuel.2017.03.085

2016

Allan Kolker and Chris van Alphen. **Collaborative studies for mercury characterization in coal and coal combustion products, Republic of South Africa** (ver. 2.0, May 2016): U.S. Geological Survey Open-File Report 2014–1153, 47 p. https://doi.org/10.3133/ofr20141153.

Yang, Y., Xu, W., Wu, Y., Xiong, J., Zhu, T., Zhou, X., & Tong, L. **Effect of HBr formation on mercury oxidation via $CaBr_2$ addition to coal during combustion**. RSC Advances, 2016, 6(64), 59009–59015. https://doi.org/10.1039/c6ra11468g

M. Wichliński, R. Kobyłecki, Z. Bis. **Application of low-temperature thermal treatment for the reduction of mercury content in coal**. E3S Web of Conferences, 1000101, SEED, 2016. https://doi.org/10.1051/e3sconf/20161000101

R. Kobyłecki, M. Wichliński, G. Wielgosz, Zbigniew Bis. **Emission of mercury from Polish large-scale utility boilers**. J. Ecological Engineering, 2016, 17(5), 128–131. https://doi.org/10.12911/22998993/65461

Y. Liang, H. Liang, S. Zhu. **Mercury emission from spontaneously ignited coal gangue hill in Wuda coalfield, Inner Mongolia, China**. Fuel, 2016, 182, 525-530. https://doi.org/10.1016/j.fuel.2016.05.092

Jun Zhong1 Fangyong Li, Junhui Fan. **Thermal Stability and Adsorption of Mercury Compounds in Fly Ash**. The Open Fuels & Energy Science Journal, 2016, 9, 114-125. https://doi.org/10.2174/1876973X01609010114

2014

Wichliński, M., Kobyłecki, R., & Bis, Z. **The release of mercury from polish coals during thermal treatment of fuels in a fluidized bed reactor**. Fuel Processing Technology, 2014, 119, 92–97. https://doi.org/10.1016/j.fuproc.2013.10.011

Wu, G. F., Liu, Q. C., Lan, Y. P., Yang, J., & Gao, W. **Study on the form of mercury in Chinese coal.** Advanced Materials Research, 2014, 838-841, 1903–1906. https://doi.org/10.4028/www.scientific.net/amr.838-841.1903

Yin, R., Feng, X., & Chen, J. **Mercury Stable Isotopic Compositions in Coals from Major Coal Producing Fields in China and Their Geochemical and Environmental Implications**. Environmental Science & Technology, 2014, 48(10), 5565–5574. https://doi.org/10.1021/es500322n

2013

Wu, G. F., Liu, Q. C., Lan, Y. P., Yang, J., & Gao, W. **Study on the Form of Mercury in Chinese Coal**. Advanced Materials Research, 2013, 838–841, 1903–1906. https://doi.org/10.4028/www.scientific.net/amr.838-841.1903

Hower J. C., O'Keefe J. M., Henke K. R., Wagner N. J., Copley G., Blake D. R., Garrison T., Oliveira M. L. S., Kautzmann R. M., Silva L. F. O. **Gaseous emissions and sublimates from the Truman Shepherd coal fire, Floyd County, Kentucky: a re-investigation following attempted mitigation of the fire**. International Journal of Coal Geology, 2013, 116, 63–74. https://doi.org/10.1016/j.coal.2013.06.007

Park, C. H., Eom, Y., Lee, L. J.-E., & Lee, T. G. **Simple and accessible analytical methods for the determination of mercury in soil and coal samples**. Chemosphere, 2013, 93(1), 9–13. https://doi.org/10.1016/j.chemosphere.2013.04.044

Wichliński M., Kobyłecki R., Bis Z. **The investigation of mercury contents in Polish coal samples**. Archives of Environmental Protection, 2013, 39(2), 141–150. https://doi.org/10.2478/aep-2013-0019

2012

Reynaldo Forte, Jr., Jeffrey V. Ryan, Travis P. Johnson, and Peter H. Kariher. **The United States Environmental Protection Agency's Mercury Measurement Toolkit: An Introduction**. Energy Fuels 2012, 26, 4643−4646. https://doi.org/10.1021/ef3001949

Alexander Romanov, Lesley Sloss, and Wojciech Jozewicz. **Mercury Emissions from the Coal-Fired Energy Generation Sector of the Russian Federation.** Energy Fuels 2012, 26, 4647−4654. https://doi.org/10.1021/ef300398q

Lesley Sloss. **Legislation, standards and methods for mercury emissions control**. CCC/195 ISBN 978-92-9029-515-0. https://www.iea-coal.org/report/legislation-standards-and-methods-for-mercury-emission-control-ccc-195/

Engle M. A., Radke L. F., Heffern E. L., O'Keefe J. M. K., Hower J. C., Smeltzer C. D., Hower J. M., Olea R. A., Eatwell R. J., Blake D. R., Emsbo-Mattingly S. D., Stout S. A., Queen g., Aggen K. L., Kolker A., Prakash A., Henke K. R., Stracher G. B., Schroeder P. A., Román-Colón Y., ter Schure A. **Gas emissions, minerals, and tars associated with three coal fires, Powder River Basin, USA**. Sci. Total Environment, 2012, 420, 146–159. https://doi.org/10.1016/j.scitotenv.2012.01.037

K. Kositkanawuth, R.H. Gangupomu, M.L. Sattler, B.H. Dennis, F.M. MacDonnell, R. Billo & J.W. Priest. **Air impacts from three alternatives for producing JP-8 jet fuel**. Journal of the Air & Waste Management Association, 2012, 62(10), 1182-1195. https://doi.org/10.1080/10962247.2012.700632

2010

Kolesnikov S.P., Rubinskaya T.Ya., Strel'tsova E.D., Leonova M.Yu., Korshevets I.K., Zykov A.M., Anichkov S.N. **Distribution of mercury in the combustion products of coal dust in boilers with liquid slag removal**. Solid Fuel Chemistry, 2010, 44(1), 50–55. https://doi.org/10.3103/S0361521910010106

2004

Sholupov S., Pogarev S., Ryzhov V., Mashyanov N., Stroganov A. **Zeeman atomic absorption spectrometer RA-915+ for direct determination of mercury in air and complex matrix samples**. Fuel Processing Technology, 2004, 85(6–7), 473–485. https://doi.org/10.1016/j.fuproc.2003.11.003

Contaminated sites

2026

Resta, G., Santos, P., Monteiro, M., Melo, R., Carvalho, M., Carvalho, A., ... & Flores, D. **Soil contamination assessment of a 19th-century abandoned Sb–Au mine in northern Portugal.** Environmental Geochemistry and Health, 2026, 48(11), 472. https://doi:10.1007/s10653-026-03359-6

García-Donas, N., Lorenzo, S., Higueras, P., Ávalos, O. A., García-Donas, A., Jaeger, J., & Barquero, J. I. **Spatial Distribution of Mercury and Potentially Toxic Elements in Soils from an Agricultural and Grazing Area Affected by Historical Mining**. Applied Sciences, 2026, 16(17), 8465. https://doi:10.3390/app16178465

Gonzalez-Valoys, A. C., Segundo, F., Zambrano-Anchundia, J. L., Jiménez-Oyola, S., Gallego, J. R., García-Ordiales, E., ... & Higueras, P. **Assessment of Soil Contaminants and Human Health Risks in the Petaquilla Mine (Panama): Implications for Site Restoration**. Minerals, 2026, 16(5), 522. https://doi:10.3390/min16050522

Jakub, K., Jiřina, S., Lukáš, P., Jiřina, S., Luka, S., & Pavel, T. **Mercury (Hg) Speciation in the Soil–Plant System of Formerly Polluted Soils**. Applied Sciences, 2026, 16(11), 5405. https://doi:10.3390/app16115405

Cortes, J. E. A., Nait-Kaci, L., & Fatin-Rouge, N. **Comparative study of zero-valent mercury immobilization by solidification/stabilization in a limestone backfill model**. Chemosphere, 2026, 407, 144974. https://doi:10.1016/j.chemosphere.2026.144974

Penalba-Iglesias, D., Robas-Mora, M., González-Reguero, D., Fernández-Pastrana, V. M., Lobo, A. P., & Jiménez-Gómez, P. A. **A novel Bacillaceae bacterium enhances phytoprotection and mercury detoxification in contaminated soils**. Ecotoxicology and Environmental Safety, 2026, 319, 120261. https://doi:10.1016/j.ecoenv.2026.120261

Fan, R., Li, X., Hao, S., Yuliang, X., Zong, J., Gao, Y., ... & Zhang, G. **Environmental processes and ecosystem services of self-purifying mercury in constructed wetlands in industrial cities: a case study of the main urban area of Changchun, Yitong River**. Frontiers in Environmental Science, 2026, 14, 1751485. https://doi:10.3389/fenvs.2026.1751485

da Silveira Tortolero Araujo Lourenço, M., Debruyne, D., Di Maggio, R. M., Germinario, C., Grifa, C., Izzo, F., ... & Mercurio, M. **Legacy and Ongoing Mercury Contamination in Soils from ASGM Sites in the Tapajós Gold Province, Pará, Brazil**. Soil and Sediment Contamination: An International Journal, 2026, 1-31. https://doi:10.1080/15320383.2026.2693904

Floreani, F., Vecchio, A., Guerra, M., Mariani, E., Mulas, G., Covelli, S., Spinelli, L., Virgili, G. **Gaseous mercury fluxes from soils and health risk assessment at a coastal legacy industrial site**. Environmental Pollution, 2026. https://doi:10.1016/j.envpol.2026.128400

Vaselli, O., Meloni, F., Cabassi, J., Nisi, B., Lazzaroni, M., Bianchi, F., & Rappuoli, D. **Geochemical Characterization of Environmental and Man-Made Matrices for Remediation Operations in the Former Hg Mining and Production Plants of Abbadia San Salvatore (Central Italy)**. Environments, 2026, 13, 220. https://Doi:10.3390/environments13040220

Baenguev, B., Belogolova, G., Chuparina, E., Minkina, T., & Kravchenko, E. **Arsenic and heavy metals in reclaimed soils of sulfide-containing waste dumps: contamination levels, spatial distribution, bioavailability, and health risk assessment**. Environmental Research, 2026, 124544. https://doi:10.1016/j.envres.2026.124544

Chakraborty, P., Sen, P., Peketi, A., Mishra, S., Chakraborty, P., Kumari, J., ... & Hazra, B. **Source-specific health risks of metallic elements in road dust from coal mining affected urban areas using an integrated PMF–HHR–Monte Carlo framework**. Environmental Geochemistry and Health, 2026, 48(2), 70. https://doi:10.1007/s10653-025-02960-5

2025

Barquero, J.I., Peco, J., Villena, J., Campos, J.A., Amorós, J.A., Esbrí, J.M., García-Navarro, F.J., Moreno, M.M., Higueras, P. **Transference of potentially toxic elements from soils to plants in a derelict Pb-Zn mining area (San Quintín mine, South-Central Spain)**. Applied Geochemistry, 2025, 106637. https://doi:10.1016/j.apgeochem.2025.106637

Johs, A., Goñez-Rodríguez, L., Brooks, S. C., & Mayes, M. A. **Mobilization of mercury from contaminated creekbank soils**. Journal of Soils and Sediments, 2025, 1-12. https://doi:10.1007/s11368-025-04014-w

Asamoah, B. D., Yevugah, L. L., Borquaye, L. S., Dodd, M., & Darko, G. **Receptor modeling, ecological risks, and human health impacts of mercury in some Ghanaian topsoils due to mining and commercial activities**. Environmental Toxicology and Chemistry, 2025, vgaf054. https://doi:10.1093/etojnl/vgaf054

Javier, G. B., Juan, V. V., Margareth, D. I., Lucellys, S. M., & Jesus, O. V. **Environmental pollution by mercury and trace metals in highly vulnerable afro-descendant territories in the Department of Cauca, Colombia**. Soil and Sediment Contamination: An International Journal, 2025, 34(3), 510-527. https://doi:10.1080/15320383.2024.2359067

Barquero, J. I., Hidalgo, J. J., Esbrí, J. M., Higueras, P., & García-Ordiales, E. **A preliminary assessment of mercury, methylmercury and other potentially toxic elements in largemouth bass (Micropterus salmoides) from the Almadén mining district**. Environmental Geochemistry and Health, 2025, 47(1), 27. https://doi:10.1007/s10653-024-02326-3

Gomez, F. H., Collivignarelli, M. C., Bellazzi, S., Torres, K. C., Sorlini, S., & Vaccari, M. **Mercury removal from mining wastewater by bioaccumulation and thermal separation in Eichhornia crassipes**. Environmental Science and Pollution Research, 32(2), 798-810. https://doi:10.1007/s11356-024-35770-w

Xiao, Y., Zhang, H., Zong, J., Bai, X., Yang, K., Li, X., ... & Zhang, G. **Mercury Accumulation in Urban Forest Leaves: Dynamics, Driving Factors, and Potential Economic Value**. Journal of Hazardous Materials, 2025, 137763. https://doi:10.1016/j.jhazmat.2025.137763

Zhang, Z., Wang, Z., Zong, J., Zhang, H., Hu, Y., Xiao, Y., ... & Li, Z. **Spatial and Temporal Changes and Influencing Factors of Mercury in Urban Agglomeration Land Patterns: A Case from Changchun Area, Old Industrial Base of Northeast China**. Land, 2025, 14(3), 652. https://doi:10.3390/land14030652

Meloni, F.; Calabrese, S.; Vaselli, O.; Capecchiacci, F.; Ciani, F.; Brusca, L.; Bellomo, S.; D'Alessandro, W.; …. & Cabassi, J. **Active Moss Biomonitoring of Mercury in the Mine-Polluted Area of Abbadia San Salvatore (Mt. Amiata, Central Italy)**. Toxics, 2025, 13, 2. https://doi:10.3390/toxics13010002

2024

Javier, G. B., Juan, V. V., Margareth, D. I., Lucellys, S. M., & Jesus, O. V. **Environmental pollution by mercury and trace metals in highly vulnerable afro-descendant territories in the Department of Cauca, Colombia.** Soil and Sediment Contamination: An International Journal, 2024, 1-18. https://doi:10.1080/15320383.2024.2359067

Sánchez, S., Baragaño, D., Gallego, J. R., López-Antón, M. A., Forján, R., & González, A. **Valorization of steelmaking slag and coal fly ash as amendments in combination with Betula pubescens for the remediation of a highly As-and Hg-polluted mining soil**. Science of the Total Environment, 2024, 927, 172297. https://doi:10.1016/j.scitotenv.2024.172297

Sarpong, L., Boadi, N. O., Nimako, C., Bortey–Sam, N., & Akoto, O. **Contamination, health risk assessment, and spatial distribution of heavy metals in soils from gold mining district, Ghana**. International Journal of Environmental Science and Technology, 2024, 1-24. https://doi:10.1007/s13762-024-06173-8

Bauštein, M., Száková, J., Stefanović, L., Najmanová, J., Sysalová, J., & Tlustoš, P. **Assessment of Mercury Uptake by Plants in Former Cinnabar Mining Areas**. Minerals, 2024, 14(12), 1211. https://doi:10.3390/min14121211

Volynkin, S.S., Podolinnaia, V.A., Shuvaeva, O.V., Yurkevich, N.V., Bortnikova, S.B., & Romanova, T.E. **Studying the process of metals and non-metals transfer in a low-temperature gas flow over sulfide tailings materials**. Chemistry and Ecology, 2024б 1-11. https://doi:10.1080/02757540.2024.2405718

Myagkaya, I.N., Saryg-Ool, B. O.Y., Kirichenko, I.S., Gustaytis, M.A., & Lazareva, E.V. **Environmental and human health risk assessment of soils in areas of ore mineralization and past gold-mining activity**. Environmental Science and Pollution Research, 2024, 1-23. https://doi:10.1007/s11356-024-34242-5

Gomez, F. H., Pelegri, N., Lopez, J. G., Torres, K. C., & Vaccari, M. **Impact of Artisanal Gold Mining in Community Conserved Areas with High Biodiversity Using a Multi-Criteria Approach: A Case Study in Colombia**. Pollutants, 2024, 4(2), 276-290. https://doi:276-290.10.3390/pollutants4020018

Sun, Y., & Yang, C. **Soil Mercury Pollution of Hainan Island, China: Patterns, Influencing Factors, and Health Risks**. Sustainability, 2024, 16(7), 3083. https://doi:10.3390/su16073083

Zhang, T., Hu, Y., Wu, J., Yin, S., Huang, J., Huang, W., ... & Zhang, G. **Characteristics and risk assessments of mercury pollution in a county region undergoing industrialization in northeastern China: a case study in Gongzhuling**. Frontiers in Environmental Science, 2024, 12, 1440426. https://doi:10.3389/fenvs.2024.1440426

Quintarelli, J. M., Garnier, J., de Souza, J. P. R., de Sousa Tonhá, M., Barral, U. M., Roig, H. L., ... & Souza, J. R. **Mercury in river samples with artisanal and small-scale gold mining influence: The case of the upper Madeira River Basin (Brazil/Bolivia)**. Journal of South American Earth Sciences, 2024, 145, 105070. https://doi:10.1016/j.jsames.2024.105070

Cao, Q., Hu, H., Yuan, W., Huang, J. H., Fu, X., & Feng, X. **Isotope-Based Characterization of Soil Elemental Mercury Emissions from Historical Mercury Mining Areas: Driving Pathways and Relative Contributions**. Environmental Science & Technology, 2024. https://doi:10.1021/acs.est.4c05220

Álvarez, R., Izquierdo, M., Serrano, H., García-Ordiales, E., García, C., Alberquilla, F., ... & Ordóñez, A. **Comparison of sediment bioavailable methods to assess the potential risk of metal (loid) s for river ecosystems**. Ecotoxicology and Environmental Safety, 2024, 281, 116614. https://doi.org/10.1016/j.ecoenv.2024.116614

Ciani, F., Lattanzi, P., Benvenuti, M., Costagliola, P., Donatelli, A., Gianni, R., ... & Rimondi, V. **Indoor mercury pollution in the herbaria: Risk assessment for workers' health and potential solutions. The studies at the Florence (Italy) herbaria**. In Environmental Geochemistry. Elsevier, 2024, 723-744. https://doi.org/10.1016/B978-0-443-13801-0.00019-0

Rodríguez, R., Garcia-Gonzalez, H., Hernández, Z., & Sanmiquel, L. **Tackling Arsenic and Mercury Contamination: Implications for Sustainable Mining and Occupational Health Risks**. Sustainability, 2024, 16(10), 4027. https://doi.org/10.3390/su16104027

Resta, G., Santos, P., Monteiro, M., Melo, R., Carvalho, M., Carvalho, A., ... & Flores, D. **Once Upon a Mine: Hg Soil Contamination Surrounding a Former Sb-Au Mining Area in Northern Portugal**. Available at SSRN 4852974.

Živković, I. **Ultra-Efficient Removal of Mercury from Contaminated Water using Selected Phenylimidazole Derivatives**. Water Air Soil Pollut 235, 339, 2024. https://doi.org/10.1007/s11270-024-07184-4

de Souza, J.P.R.; Garnier, J.; Quintarelli, J.M.; de Sousa Tonhá, M.; Roig, H.L.; Seyler, P.; de Souza, J.R. **Adapted Sequential Extraction Protocol to Study Mercury Speciation in Gold Mining Tailings: Implications for Environmental Contamination in the Amazon**. Toxics, 2024, 12, 326. https://doi.org/10.3390/toxics12050326

Sánchez, S., Baragaño, D., Gallego, J.R., López-Antón, M.A., Forján, R., & González, A. **Valorization of steelmaking slag and coal fly ash as amendments in combination with Betula pubescens for the remediation of a highly As-and Hg-polluted mining soil**. Science of The Total Environment, 2024, 172297. https://doi.org/10.1016/j.scitotenv.2024.172297

Zhu, W., Li, Z., Li, P., Sommar, J., Fu, X., Feng, X., ... & Pereira, E. **Legacy Mercury Re-emission and Subsurface Migration at Contaminated Sites Constrained by Hg Isotopes and Chemical Speciatio**n. Environmental Science & Technology, 2024, 58 (12), 5336-5346. https://doi.org/10.1021/acs.est.3c07276

Nannoni, A., Annese, V., Fornasaro, S., Morelli, G., Ciani, F., Monnanni, A., Lattanzi, P., Rimondi, V., Costagliola, P., and Fagotti, C. **Particle-bound mercury transport across a mine-polluted fluvial system: towards a simple method to measure Hg flux from the Monte Amiata Mining District (Southern Tuscany, Italy)**. EGU General Assembly, 2024, EGU24-16063. https://doi.org/10.5194/egusphere-egu24-16063

Barbara, N., Meloni, F., Cabassi, J., and Vaselli, O. **Mercury contamination in a former mining plant of NW Tuscany (central Italy)**. EGU General Assembly, 2024, EGU24-15864. https://doi.org/10.5194/egusphere-egu24-15864

Huo, Z., Li, Z., Guan, P., Shi, F., Jiang, H., He, C., & Wang, Z. **Effect of heavy metal contamination on soil nematode communities in urban brownfields**. Global Ecology and Conservation, 2024, 49. https://doi.org/10.1016/j.gecco.2023.e02787

Talovskaya, A.V., Adil'bayeva, T.E., & Yazikov, E.G. **Monitoring for elemental composition of particulate matter deposited in snow cover around coal-fired thermal power plant (Karaganda, Central Kazakhstan)**. GEOGRAPHY, ENVIRONMENT, SUSTAINABILITY, 2024, 16(4), 180-192. https://doi.org/10.24057/2071-9388-2023-2829

Castilhos, Z.C., & Domingos, L.M.B. **A picture of artisanal and small-scale gold mining (ASGM) in Brazil and its mercury emissions and releases**. Environmental Geochemistry and Health, 2024, 46(3), 1-19. https://doi.org/10.1007/s10653-024-01881-z

2023

Ciani, F., Fornasaro, S., Benesperi, R., Bianchi, E., Cabassi, J., Di Nuzzo, L., ... & Rimondi, V. **Mercury accumulation efficiency of different biomonitors in indoor environments: The case study of the Central Italian Herbarium (Florence, Italy)**. Environmental Science and Pollution Research, 2023, 1-13. https://doi.org/10.1007/s11356-023-31105-3

Rodríguez, R.; Hernández, Z.; Fernández, B.; Bascompta, M. **A Novel Solution to Avoid Mercury Emissions Produced by Highly Contaminated Demolition Debris in Mining Site**. Environments, 2023, 10(187). https://doi.org/10.3390/environments10110187

Barquero, J.I., Hidalgo, J.J., Esbrí, J.M., Higueras, P.L., & Garcia-Ordiales, E. **Mercury, Methylmercury and Other Potentially Toxic Elements in Black Bass (Micropterus Salmoides) from the Almadén Mining District: Concentration, Dispersion and Risk Concerns**. 2023. https://doi.org/10.2139/ssrn.4534150

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2023, 45, 3555–3565. https://doi.org/10.1007/s10653-022-01441-3

Aliprandini, P., Junior, A.B.B., Veiga, M.M., Marshall, B.G., Scarazzato, T., & Espinosa, D.C.R. **Evaluation of biosorbents as an alternative for mercury cyanide removal from aqueous solution**. Minerals Engineering, 2023, 204, 108431. https://doi.org/10.1016/j.mineng.2023.108431

Meloni, F., Farieri, A., Higueras, P. L., Esbrí, J. M., Nisi, B., Cabassi, J., Rappuoli, D. & Vaselli, O. **Mercury distribution in plants and soils from the former mining area of Abbadia San Salvatore (Tuscany, central Italy)**. Environmental Geochemistry and Health, 2023. https://doi.org/10.1007/s10653-023-01739-w

Viana, L. N., & Saint'Pierre, T. D. **Environmental impact assessment of end-of-life fluorescent lamps in Rio de Janeiro, Brazil, under different recycling rate scenarios**. Chemosphere, 2023, 139835. https://doi.org/10.1016/j.chemosphere.2023.139835

Gordeeva, O., & Pastukhov, M. **Forms of mercury in soils and its accumulation by herbs in the zone of influence of the sludge storage of a chlor-alkali plant (Southern Baikal region)**. In E3S Web of Conferences, 2023, 417, 02013. https://doi.org/10.1051/e3sconf/202341702013

Barago, N., Mastroianni, C., Pavoni, E., Floreani, F., Parisi, F., Lenaz, D., & Covelli, S. **Environmental impact of potentially toxic elements on soils, sediments, waters, and air nearby an abandoned Hg-rich fahlore mine (Mt. Avanza, Carnic Alps, NE Italy)**. Environmental Science and Pollution Research, 2023, 1-22. https://doi.org/10.1016/j.envpol.2022.120921

Floreani, F.; Pavoni, E.; Gosar, M.; Covelli, S. **Evasion of Gaseous Elemental Mercury from Forest and Urban Soils Contaminated by Historical and Modern Ore Roasting Processes (Idrija, Slovenia)**. Atmosphere 2023, 14, 1036. https://doi.org/10.3390/atmos14061036

Jin, X., Yan, J., Ali, M. U., Li, Q., & Li, P. **Mercury Biogeochemical Cycle in Yanwuping Hg Mine and Source Apportionment by Hg Isotopes**. Toxics, 2023, 11(5), 456. https://doi.org/10.3390/toxics11050456

Rodríguez, R., Garcia-Gonzalez, H., Pastrana, Á., & Hernández, Z. **Health and Safety Protocol for the Management of Building Demolition Waste with High Mercury Contamination**. Buildings, 2023, 13(5), 1310. https://doi.org/10.3390/buildings13051310

Rodríguez R, Fernández B, Malagón B, Garcia-Ordiales E. **Chemical-Physical Model of Gaseous Mercury Emissions from the Demolition Waste of an Abandoned Mercury Metallurgical Plant**. Applied Sciences, 2023, 13(5):3149. https://doi.org/10.3390/app13053149

Zhang, X., Tian, K., Wang, Y., Hu, W., Liu, B., Yuan, X., ... & Wu, L. **Identification of sources and their potential health risk of potential toxic elements in soils from a mercury-thallium polymetallic mining area in Southwest China: Insight from mercury isotopes and PMF model**. Science of The Total Environment, 2023, 161774. https://doi.org/10.1016/j.scitotenv.2023.161774

Floreani, F., Zappella, V., Faganeli, J., & Covelli, S. **Gaseous mercury evasion from bare and grass-covered soils contaminated by mining and ore roasting (Isonzo River alluvial plain, Northeastern Italy)**. Environmental Pollution, 2023, 318, 120921. https://doi.org/10.1016/j.envpol.2022.120921

de Pontes, G. C., de Carvalho Vicente, M., Kasper, D., Machado, W. T., & Wasserman, J. C. **Spatial distribution of total mercury and methylmercury in the sediment of a tropical coastal environment subjected to heavy urban inputs**. Chemosphere, 2023, 312, 137067. https://doi.org/10.1016/j.chemosphere.2022.137067

C. Du, Z. Li. **Contamination and health risks of heavy metals in the soil of a historical landfill in northern China**. Chemosphere, 2023, 313, 137349. https://doi.org/10.1016/j.chemosphere.2022.137349

Esbrí, J.M., Minang, C.M., Rivera, S., Madrid-Illescas, M., García-Noguero, E., González-Valoys, A., ... & Higueras, P.L. **Evaluation of antimony availability in a mining context: Impact for the environment, and for mineral exploration and exploitation**. Chemosphere, 2023, 311, 137086. https://doi.org/10.1016/j.chemosphere.2022.137086

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A. et al. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2023, 45(5), 1723-1737. https://doi.org/10.1007/s10653-022-01295-9

2022

Teixeira, M., Cesar, R., Abessa, D., Siqueira, C., Lourenço, R., Vezzone, M., ... & Castilhos, Z. **Ecological risk assessment of metal and hydrocarbon pollution in sediments from an urban tropical estuary: Tijuca lagoon (Rio de Janeiro, Brazil)**. Environmental Science and Pollution Research, 2022, 1-17. https://doi.org/10.1007/s11356-022-22214-6

Siqueira, D., Cesar, R., Lourenço, R., Salomão, A., Marques, M., Polivanov, H., ... & Castilhos, Z. C. **Terrestrial and aquatic ecotoxicity of iron ore tailings after the failure of VALE SA mining dam in Brumadinho (Brazil)**. Journal of Geochemical Exploration,2022, 235, 106954. https://doi.org/10.1016/j.gexplo.2022.106954

Floreani, F., Acquavita, A., Barago, N., Klun, K., Faganeli, J., & Covelli, S. **Gaseous Mercury Exchange from Water–Air Interface in Differently Impacted Freshwater Environments**. International Journal of Environmental Research and Public Health, 2022, 19(13), 8149. https://doi.org/10.3390/ijerph19138149

Wang, J., Yang, Z., Mei, J., Wang, C., Hong, Q., & Yang, S. **Comparison of pyrite-phase transition metal sulfides for capturing leaked high concentrations of gaseous elemental mercury in indoor air: Mechanism and adsorption/desorption kinetics**. Journal of Colloid and Interface Science, 2022, 622, 431-442. https://doi.org/10.1016/j.jcis.2022.04.144

Božič, D., Živković, I., Hudobivnik, M. J., Kotnik, J., Amouroux, D., Štrok, M., & Horvat, M. **Fractionation of mercury stable isotopes in lichens**. Chemosphere, 2022, 309, 136592. https://doi.org/10.1016/j.chemosphere.2022.136592

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2022, 1-11. https://doi.org/10.1007/s10653-022-01441-3

Floreani, F.; Acquavita, A.; Barago, N.; Klun, K.; Faganeli, J.; Covelli, S. **Gaseous Mercury Exchange from Water–Air Interface in Differently Impacted Freshwater Environments**. Int. J. Environ. Res. Public Health, 2022, 19, 8149. https://doi.org/10.3390/ijerph19138149

Caballero-Gallardo, K., Palomares-Bolaños, J. & Olivero-Verbel, J. **Mercury Concentrations in Water, Sediments, Soil, and Fish Around Ancestral Afro-Descendant Territories Impacted by Gold Mining in the Cauca Department, Colombia**. Water Air Soil Pollut., 2022, 233, 393. https://doi.org/10.1007/s11270-022-05779-3

Nannoni, A., Meloni, F., Benvenuti, M., Cabassi, J., Ciani, F., Costagliola, P., ... & Vaselli, O. . **Environmental impact of past Hg mining activities in the Monte Amiata district, Italy: A summary of recent studies.** AIMS Geosciences, 2022, 8(4), 525-551. https://doi.org/10.3934/geosci.2022029

Gyamfi, O., Wireko-Gyebi, R.S., Ansah, E. et al. **Assessment and Awareness of Health Risks Posed by Mercury in Artisanal Gold Mining in the Ashanti Region of Ghana**. Chemistry Africa, 2022, 5, 1765–1775. https://doi.org/10.1007/s42250-022-00453-x

Xiao, Y.; Zhang, G.; Guo, J.; Zhang, Z.;Wang, H.;Wang, Y.;Wang, Z.; Yuan, H.; Cui, D. **Pollution Characteristics and Risk Assessments of Mercury in Jiutai, a County Region Thriving on Coal Mining in Northeastern China**. Sustainability 2022, 14, 10366. https://doi.org/10.3390/su141610366

Rodríguez, R., Garcia-Gonzalez, H., & García-Ordiales, E. (2022). **Empirical Model of Gaseous Mercury Emissions for the Analysis of Working Conditions in Outdoor Highly Contaminated Sites**. Sustainability, 2022, 14(21), 13951. https://doi.org/10.3390/su142113951

Garcia Gonzalez, H., García-Ordiales, E., & Diez, R.R. **Analysis of the airborne mercury and particulate arsenic levels close to an abandoned waste dump and buildings of a mercury mine and the potential risk of atmospheric pollution**. SN Applied Sciences, 2022, 4(3), 1-10. https://doi.org/10.1007/s42452-022-04964-7

Chen, G.; Sun, Y.; Zhang, Q.; Duan, Z.; Svanberg, S. **Atmospheric Mercury Concentrations in Guangzhou City, Measured by Spectroscopic Techniques**. Atmosphere, 2022, 13, 1650. https://doi.org/10.3390/atmos13101650

E. Petranich, S. Predonzani, A. Acquavita, N. Mashyanov, S. Covelli. **Rapid thermoscanning technique for direct analysis of mercury species in contaminated sediments: From pure compounds to real sample application**. Applied Geochemistry, 2022, 105393. https://doi.org/10.1016/j.apgeochem.2022.105393

M. Stelling, A. Biezeman, E. Korthagen, G. Verstappen. **On-site detection of mercury**. Netherlands Forensic Institute, Technical Report ISFP-AG-OC-ENV-869173, 2022. https://www.researchgate.net/publication/359134797_On-site_detection_of_mercury

Garcia Gonzalez, H., García-Ordiales, E., & Diez, R. R. **Analysis of the airborne mercury and particulate arsenic levels close to an abandoned waste dump and buildings of a mercury mine and the potential risk of atmospheric pollution**. SN Applied Sciences, 2022, 4(3), 1-10. https://doi.org/10.1007/s42452-022-04964-7

Silvia Fornasaro, Guia Morelli, Valentina Rimondi, Cesare Fagotti, Rossella Friani, Pierfranco Lattanzi, Pilario Costagliola. **Mercury distribution around the Siele Hg mine (Mt. Amiata district, Italy) twenty years after reclamation: Spatial and temporal variability in soil, stream sediments, and air**. J. Geochemical Exploration, 2022, 232, 106886. https://doi.org/10.1016/j.gexplo.2021.106886

Spearman, S.; Bartrem, C.; Sharshenova, A.A.; Salymbekova, K.S.; Isirailov, M.B.; Gaynazarov, S.A.; Gilmanov, R.; von Lindern, I.H.; von Braun, M.; Möller, G. **Comparison of X-ray Fluorescence (XRF) and Atomic Absorption Spectrometry (AAS) Results for an Environmental Assessment at a Mercury Site in Kyrgyzstan**. Appl. Sci. 2022, 12, 1943. https://doi.org/10.3390/app12041943

Wang, T., Lou, Y., Jiang, S., Wang, J., Zhang, Y., & Pan, W.P. **Distribution characteristics and environmental risk assessment of trace elements in desulfurization sludge from coal-fired power plants**. Fuel, 2022, 314, 122771. https://doi.org/10.1016/j.fuel.2021.122771

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A., Vorkamp, K., Yevugah, L.L., & Darko, G. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2022, 1-15. https://doi.org/10.1007/s10653-022-01295-9

A. Loria, Y.R. Ramos-Arroyo, D. Rocha, et al. **Widespread elevated concentrations of gaseous elemental mercury in Guanajuato, Mexico, centuries after historical silver refining by mercury amalgamation**. Science of the Total Environment, 2022. https://doi.org/10.1016/j.scitotenv.2022.157093

2021

Fantozzi, L.; Guerrieri, N.; Manca, G.; Orrù, A.; Marziali, L. **An Integrated Investigation of Atmospheric Gaseous Elemental Mercury Transport and Dispersion Around a Chlor-Alkali Plant in the Ossola Valley (Italian Central Alps)**. Toxics, 2021, 9, 172. https://doi.org/10.3390/toxics9070172

Guney, M.; Kumisbek, A.; Akimzhanova, Z.; Kismelyeva, S.; Beisova, K.; Zhakiyenova, A.; Inglezakis, V.; Karaca, F. **Environmental Partitioning, Spatial Distribution, and Transport of Atmospheric Mercury (Hg) Originating from a Site of Former Chlor-Alkali Plant**. Atmosphere 2021, 12, 275. https://doi.org/10.3390/atmos12020275

Guney, M.; Akimzhanova, Z.; Kumisbek, A.; Kismelyeva, S.; Guney, A.; Karaca, F.; Inglezakis, V. **Assessment of Distribution of Potentially Toxic Elements in Different Environmental Media Impacted by a Former Chlor-Alkali Plant**. Sustainability, 2021, 13, 13829. https://doi.org/10.3390/su132413829

Morton Bermea, O., Castro-Larragoitia, J., Arellano Álvarez, Á.A. et al. **Mercury in Blood of Children Exposed to Historical Residues from Metallurgical Activity**. Exposure and Health, 2021. https://doi.org/10.1007/s12403-021-00382-z

Morton Bermea, O., Castro-Larragoitia, J., Arellano Álvarez, Á.A. et al. **Mercury in Blood of Children Exposed to Historical Residues from Metallurgical Activity**. Exposure and Health, 2021. https://doi.org/10.1007/s12403-021-00382-z

Zhaojun Wang, Lei Wang, Tingting Xiao, Tianle Yu, Xu Li, Zhanhui Tang, Gang Zhang. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Urban Regions in a Typical Chinese Industrial City: Changchun**. Polish J. Environ. Stud., 2021, 30(4), 3829-3841. https://doi.org/10.15244/pjoes/131051

Wang, Z.; Zhang, Y.; Wang, L.; Li, X.; Zhou, X.; Li, X.; Yan, M.; Lu, Q.; Tang, Z.; Zhang, G.; Wang, D. **Characteristics and Risk Assessments of Mercury Pollution Levels at Domestic Garbage Collection Points Distributed within the Main Urban Areas of Changchun City**. Toxics, 2021, 9, 309. https://doi.org/10.3390/toxics9110309

Jiang Liu, Bo Meng, Alexandre.J. Poulain, Qiyi Meng, Xinbin Feng. **Stable isotope tracers identify sources and transformations of mercury in rice (Oryza sativa L.) growing in a mercury mining area**. Fundamental Research, 2021, 1(3), 259-268. https://doi.org/10.1016/j.fmre.2021.04.003

Chang, Chuanyu ; Yin, Runsheng ; Huang, Fang ; Sun, Guangyi ; Mao, Kang ; Lei, Da ; Zhang, Hua. **Understanding the Bioaccumulation of Mercury in Rice Plants at the Wanshan Mercury Mine, China: Using Stable Mercury Isotopes**. J. Geophysical Research: Biogeosciences, 2021, 126(2). https://doi.org/10.1029/2020JG006103

Lin Jiang, Ruihuan Zhang, Lina Zhang, Rui Zheng, Maosheng Zhong. **Improving the regulatory health risk assessment of mercury-contaminated sites**. J. Hazardous Materials, 2021, 402, 123493. https://doi.org/10.1016/j.jhazmat.2020.123493

Chuanyu Chang, Runsheng Yin, Fang Huang, Ruirui Wang, Chongying Chen, Kang Mao, Xinbin Feng, Hua Zhang. **A new method of predicting the contribution of TGM to Hg in white rice: Using leaf THg and implications for Hg risk control in Wanshan Hg mine area**. Environmental Pollution, 2021, 288, 117727. https://doi.org/10.1016/j.envpol.2021.117727

Viso, S.; Rivera, S.; Martinez-Coronado, A.; Esbrí, J.M.; Moreno, M.M.; Higueras, P. **Biomonitoring of Hg0, Hg2+ and Particulate Hg in a Mining Context Using Tree Barks**. Int. J. Environ. Res. Public Health, 2021, 18, 5191. https://doi.org/10.3390/ijerph18105191

González-Valoys, A.C., Jiménez Salgado, J.U., Rodríguez, R. et al. **An approach for evaluating the bioavailability and risk assessment of potentially toxic elements using edible and inedible plants—the Remance (Panama) mining area as a model**. Environ Geochem Health, 2021. https://doi.org/10.1007/s10653-021-01086-8

Acquavita, A., Brandolin, D., Cattaruzza, C. et al. **Mercury distribution and speciation in historically contaminated soils of the Isonzo River Plain (NE Italy)**. J Soils Sediments, 2021. https://doi.org/10.1007/s11368-021-03038-2

Wang Z, Zhang Y, Wang L, Li X, Zhou X, Li X, Yan M, Lu Q, Tang Z, Zhang G, Wang D. **Characteristics and Risk Assessments of Mercury Pollution Levels at Domestic Garbage Collection Points Distributed within the Main Urban Areas of Changchun City**. Toxics, 2021; 9(11), 309. https://doi.org/10.3390/toxics9110309

Opoku Gyamfi, Peter Borgen Sørensen, Godfred Darko, Eugene Ansah, Katrin Vorkamp, Jesper Leth Bak. **Contamination, exposure and risk assessment of mercury in the soils of an artisanal gold mining community in Ghana**. Chemosphere, 2021, 267, 128910. https://doi.org/10.1016/j.chemosphere.2020.128910

Janeiro-Tato, I., Lopez-Anton, M.A., Baragaño, D. et al. **Immobilization of mercury in contaminated soils through the use of new carbon foam amendments**. Environ Sci Eur, 2021, 33, 127. https://doi.org/10.1186/s12302-021-00569-w

2020

Keegan H. Moody, Kazi M. Hasan, Sumeja Aljic, Victoria M. Blakeman, L. Perry Hicks, Danielle C. Loving, Matthew E. Moore, B. Spencer Hammett, Mónica Silva-González, Caryn S. Seney, Adam M. Kiefer. **Mercury emissions from Peruvian gold shops: Potential ramifications for Minamata compliance in artisanal and small-scale gold mining communities**. Environmental Research, 2020, 182, 109042. https://doi.org/10.1016/j.envres.2019.109042

Jicheng Xia, Jianxu Wang, Leiming Zhang, Christopher W.N. Anderson, Xun Wang, Hua Zhang, Zhihui Dai, Xinbin Feng. **Screening of native low mercury accumulation crops in a mercury polluted mining region: Agricultural planning to manage mercury risk in farming communities.** Journal of Cleaner Production, 2020, 262, 121324. https://doi.org/10.1016/j.jclepro.2020.121324

Samantha Jiménez-Oyola, María-Jesús García-Martínez, Marcelo F. Ortega, David Bolonio, Clara Rodríguez, José-María Esbrí, Juan F. Llamas, Pablo Higueras. **Multi-pathway human exposure risk assessment using Bayesian modeling at the historically largest mercury mining district**. Ecotoxicology and Environmental Safety, 2020, 201, 110833. https://doi.org/10.1016/j.ecoenv.2020.110833

Thelma Akanchise, Sandra Boakye, Lawrence Sheringham Borquaye, Matt Dodd, Godfred Darko. **Distribution of heavy metals in soils from abandoned dump sites in Kumasi, Ghana**. Scientific African, 2020, 10, e00614. https://doi.org/10.1016/j.sciaf.2020.e00614

Marta Lazzaroni, Barbara Nisi, Daniele Rappuoli, Jacopo Cabassi and Orlando Vaselli. **A New Low-Cost and Reliable Method to Evaluate the Release of Hg0 from Synthetic Materials.** Processes, 2020, 8, 1282; https://doi.org/10.3390/pr8101282

Jacopo Cabassi, Valentina Rimondi, Zhang Yeqing, Antonella Vacca, Orlando Vaselli, Antonella Buccianti, Pilario Costagliola. **100 years of high GEM concentration in the Central Italian Herbarium and Tropical Herbarium Studies Centre (Florence, Italy)**. J. Environ. Sciences, 2020, 87, 377-388. https://doi.org/10.1016/j.jes.2019.07.007

Federico Floreani, Nicolò Barago, Alessandro Acquavita, Stefano Covelli, Nicola Skert and Pablo Higueras. **Spatial Distribution and Biomonitoring of Atmospheric Mercury Concentrations over a Contaminated Coastal Lagoon (Northern Adriatic, Italy)**. Atmosphere, 2020, 11, 1280. https://doi.org/10.3390/atmos11121280

Nicolò Barago, Federico Floreani, Alessandro Acquavita, José María Esbrí, Stefano Covelli and Pablo Higueras. **Spatial and Temporal Trends of Gaseous Elemental Mercury over a Highly Impacted Coastal Environment (Northern Adriatic, Italy)**. Atmosphere, 2020, 11, 935. https://doi.org/10.3390/atmos11090935

Mert Guney, Zhanel Akimzhanova, Aiganym Kumisbek, Kamila Beisova, Symbat Kismelyeva, Aliya Satayeva, Vassilis Inglezakis and Ferhat Karaca. **Mercury (Hg) Contaminated Sites in Kazakhstan: Review of Current Cases and Site Remediation Responses**. Int. J. Environ. Res. Public Health 2020, 17, 8936; https://doi.org/10.3390/ijerph17238936

The NSW Environment Protection Authority, Australia. **Independent review into off-site mercury at Orica Botany: Stage Two**. 2020, https://www.epa.nsw.gov.au/working-together/community-engagement/community-news/orica-botany-bay-incident/orica-botany/independent-review-orica-botany/independent-review-stage-two

M. Guney, Zh. Akimzhanova, A. Kumisbek, K. Beisova, S. Kismelyeva, A. Satayeva, V. Inglezakis, F. Karaca. **Mercury (Hg) Contaminated Sites in Kazakhstan: Review of Current Cases and Site Remediation Responses**. Int. J. Environ. Res. Public Health, 2020, 17, 8936. https://doi.org/10.3390/ijerph17238936

Zhidong Xu, Qinhui Lu, Xiaohang Xu, Xinbin Feng, Longchao Liang, Lin Liu, Chan Li, Zhuo Chen, Guangle Qiu. **Multi-pathway mercury health risk assessment, categorization and prioritization in an abandoned mercury mining area: A pilot study for implementation of the Minamata Convention**. Chemosphere, 2020, 260, 127582, https://doi.org/10.1016/j.chemosphere.2020.127582

Tirado-Ballestas, I., Caballero-Gallardo, K. & Olivero-Verbel, J. **Toxicological effects of bituminous coal dust on the earthworm Eisenia fetida (Oligochaeta: Lumbricidae)**. Ecotoxicology, 2020, 29, 1422–1430. https://doi.org/10.1007/s10646-020-02263-8

Samantha T. Brown, Kazi M. Hasan, Keegan H. Moody, Danielle C. Loving, Kathryn E. Howe, Alaina G. Dawson, Kevin Drace, Jeffrey D. Hugdahl, Caryn S. Seney, Claudia M. Vega, Luis E. Fernandez, Adam M. Kiefer. **Method for mapping Hg0 emissions from gold shops in artisanal and small-scale gold mining communities.** MethodsX, 7, 2020, 101060. https://doi.org/10.1016/j.mex.2020.101060.

2019

National Elemental Mercury Response Guidebook. USEPA, March 2019. https://www.acac.org/forms/otherpdfs/epamercury2019.pdf

V. Rimondi, P. Costagliola, P. Lattanzi, G. Morelli, G. Cara, C. Cencetti, C. Fagotti, A. Fredduzzi, G. Marchetti, A. Sconocchia, S. Torricelli. **A 200 km-long mercury contamination of the Paglia and Tiber floodplain: Monitoring results and implications for environmental management**. Environmental Pollution, 2019, 255, 113191. https://doi.org/10.1016/j.envpol.2019.113191

Jianxu Wang, Xuecheng Sun, Ying Xing, Jicheng Xia, Xinbin Feng. **Immobilization of mercury and arsenic in a mine tailing from a typical Carlin-type gold mining site in southwestern part of China**. Journal of Cleaner Production, 2019, 240, 118171. https://doi.org/10.1016/j.jclepro.2019.118171

Yan J., Wang C., Wang Z., Yang S., & Li P. **Mercury concentration and speciation in mine wastes in Tongren mercury mining area, southwest China and environmental effects**. Applied Geochemistry. 2019, 106, 112-119. https://doi.org/10.1016/j.apgeochem.2019.05.008

Gallego, J.L.R., López-Antón, M.A., de la Rosa, D.M. et al. **Assessment of mercury pollution sources in beach sand and coastal soil by speciation analysis**. Environ Sci Eur., 2019, 31, 79. https://doi.org/10.1186/s12302-019-0264-3

Jianxu Wang, Ying Xing, Yuanyan Xie, Yong Meng, Jicheng Xia, Xinbin Feng. **The use of calcium carbonate-enriched clay minerals and diammonium phosphate as novel immobilization agents for mercury remediation: Spectral investigations and field applications**. Science of The Total Environment, 2019, 646, 1615-1623. https://doi.org/10.1016/j.scitotenv.2018.07.225

Back, S.K., Mojammal, A.H. M., Kim, J.H., Kim, Y.H., Seok, K.S., & Seo, Y.C. **Mercury distribution analyses and estimation of recoverable mercury amount from byproducts in primary metal production facilities using UNEP toolkit and on-site measurement**. Journal of Material Cycles and Waste Management, 2019, 21(4), 915-924. https://doi.org/10.1007/s10163-019-00851-3

2018

Zhengcheng Song, Ping Lib, Li Ding, Zhonggen Li, Wei Zhu, Tianrong He, Xinbin Feng. **Environmental mercury pollution by an abandoned chlor-alkali plant in Southwest China**. Journal of Geochemical Exploration. 2018, 194, 81–87. https://doi.org/10.1016/j.gexplo.2018.07.017

Wang, C., Song, Z., Li, Z., Zhu, W., Li, P., & Feng, X. **Mercury speciation and mobility in salt slurry and soils from an abandoned chlor-alkali plant, Southwest China**. Science of the Total Environment. 2019, 652, 900–906. https://doi.org/10.1016/j.scitotenv.2018.10.296

Leobardo Rocha-Román, Jesús Olivero-Verbel, Karina Rocío Caballero-Gallardo. **Impacto de la minería del oro asociado con la contaminación por mercurio en suelo superficial de San Martín de Loba, Sur de Bolívar (Colombia).** Rev. Int. Contam. Ambie. 2018. 34 (1) 93-102. https://doi.org/10.20937/RICA.2018.34.01.08

Yuber Palacios-Torres, Karina Caballero-Gallardo, Jesus Olivero-Verbel. **Mercury pollution by gold mining in a global biodiversity hotspot, the Choco biogeographic region, Colombia**. Chemosphere, 2018, 193, 2018, 421-430. https://doi.org/10.1016/j.chemosphere.2017.10.160

Ana Paula de Castro Rodrigues, Rodrigo Guerra Carvalheira, Vanessa Gomes, Ana Rosa Linde Arias, Nádia Regina Pereira Almosny, Zuleica Carmen Castilhos, Edison Dausacker Bidone. **Acetylcholinesterase Activity in Fish Exposed to Mercury in Guanabara Bay, RJ, Brazil**. Environmental Pollution and Protection, 2018, 3(4), 91-99. https://doi.org/10.22606/epp.2018.34001

A.V. Korobeinyk, V.R. Yapyiev, S. Azat, V.J. Inglezakis. **Assessment of total mercury content in water of the Balkyldak Lake-reservoir, Pavlodar, Kazakhstan**. IOP Conf. Series: Earth and Environmental Science, 2018, 167, 012006. https://doi.org/10.1088/1755-1315/167/1/012006

Kim, S., Eom, Y., & Lee, T.G. **Survey of the mercury-containing wastes released from various sources in Korea**. Journal of industrial and engineering chemistry, 2018, 61, 288-294. https://doi.org/10.1016/j.jiec.2017.12.026

2017

M. Rumayor, J.R. Gallego, E. Rodríguez-Valdés, M. Díaz-Somoano. **An assessment of the environmental fate of mercury species in highlypolluted brownfields by means of thermal desorption**. Journal of Hazardous Materials, 2017, 325, 1–7. https://doi.org/10.1016/j.jhazmat.2016.11.068

Berdonces M. A. L., Higueras P. L., Fernández-Pascual M., Borreguero A. M., Carmona M. **The role of native lichens in the biomonitoring of gaseous mercury at contaminated sites**. J. Environmental Management. 2017, 186(2), 207–213. https://doi.org/10.1016/j.jenvman.2016.04.047

Wang J., Xia J., Feng X. **Screening of chelating ligands to enhance mercury accumulation from historically mercury-contaminated soils for phytoextraction**. J. Environ. Management., 2017, 186(2), 233–239. https://doi.org/10.1016/j.jenvman.2016.05.031

O. Vaselli, B. Nisi, D. Rappuoli, J. Cabassi, and F. Tassi. **Gaseous Elemental Mercury and Total and Leached Mercury in Building Materials from the Former Hg-Mining Area of Abbadia San Salvatore (Central Italy)**. Int. J. Environ. Res. Public Health 2017, 14, 425. https://doi.org/10.3390/ijerph14040425

Tomáš Navrátil, Martin Šimeček, James B. Shanley, Jan Rohovec, Maria Hojdová, Jakub Houška. **The history of mercury pollution near the Spolana chlor-alkali plant (Neratovice, Czech Republic) as recorded by Scots pine tree rings and other bioindicators**. Science of The Total Environment, 2017, 586, 1182-1192. https://doi.org/10.1016/j.scitotenv.2017.02.112

Acquavita, A., Biasiol, S., Lizzi, D., Mattassi, G., Pasquon, M., Skert, N., & Marchiol, L. **Gaseous elemental mercury level and distribution in a heavily contaminated site: The ex-chlor alkali plant in torviscosa (Northern Italy)**. Water, Air, & Soil Pollution, 2017, 228(2), 1-14. https://doi.org/10.1007/s11270-016-3234-z

2016

Buyun Du, Ping Li, Xinbin Feng, Guangle Qiu, Jun Zhou and Laurence Maurice. **Mercury Exposure in Children of the Wanshan Mercury Mining Area, Guizhou, China**. Int. J. Environ. Res. Public Health 2016, 13, 1107. https://doi.org/10.3390/ijerph13111107

Esbrí, J. M., Martínez-Coronado, A., and Higueras, P. L. **Temporal variations in gaseous elemental mercury concentrations at a contaminated site: Main factors affecting nocturnal maxima in daily cycles**. Atmos. Environ., 2016, 125, 8–14. https://doi.org/10.1016/j.atmosenv.2015.10.064

Pogrzeba, M., Ciszek, D., Galimska-Stypa, R. et al. **Ecological strategy for soil contaminated with mercury**. Plant Soil, 2016, 409, 371–387. https://doi.org/10.1007/s11104-016-2936-8

2015

Hagan, N., Robins, N., Hsu-Kim, H. et al. **Mercury hair levels and factors that influence exposure for residents of Huancavelica, Peru**. Environ Geochem Health, 2015, 37, 507–514. https://doi.org/10.1007/s10653-014-9665-9

Esbrí, J. M., López-Berdonces, M. A., Fernández-Calderón, S., Higueras, P., and Díez, S. **Atmospheric mercury pollution around a chlor-alkali plant in Flix (NE Spain): an integrated analysis**. Environ. Sci. Pollut. Res., 2015, 22, 4842–4850. https://doi.org/10.1007/s11356-014-3305-x

Hagan N., Robins N., Gonzales R. D. E., Hsu-Kim H. **Speciation and bioaccessibility of mercury in adobe bricks and dirt floors in Huancavelica, Peru**. Environmental Geochemistry and Health, 2015, 37(2). 263–272. https://doi.org/10.1007/s10653-014-9644-1

Li P., Du B., Chan H. M., Feng X. **Human inorganic mercury exposure, renal effects and possible pathways in Wanshan mercury mining area, China**. Environmental Research, 2015, 140, 198-204. https://doi.org/10.1016/j.envres.2015.03.033

Miller C.L., Watson D.B., Lester B., Howe J.Y., Phillips D.H., He F., Liang L., Pierce E.M. **Formation of Soluble Mercury Oxide Coatings: Transformation of Elemental Mercury in Soils**. Environmental Science & Technology, 2015, 49(20), 12105–12111. https://doi.org/10.1021/acs.est.5b00263

Watson D., Miller C., Lester B., Lowe K., Southworth G., Bogle M. A., Liang L., Pierce E. **Mercury source zone identification using soil vapor sampling and analysis.** Frontiers of Environmental Science & Engineering, 2015, 9(4), 596–604. https://doi.org/10.1007/s11783-014-0709-2

Jacopo Cabassi. **Gaseous mercury (Hg0) in the former mining area of Abbadia San Salvatore (Mt. Amiata, Siena) and in quiescent and active volcanic areas: distribution in air and comparison with other atmospheric pollutants**. PLINIUS, 2015, 41, 2015

Xu, Jianling; Wang, Hanxi; Liu, Yuanyuan; Ma, Mengchao; Zhang, Tian; Zheng, Xiaoxue; Zong, Meihan. **Ecological risk assessment of heavy metals in soils surrounding oil waste disposal areas**. Environmental Monitoring and Assessment, 2016, 188(2). https://doi.org/10.1007/s10661-016-5093-x

Bogans, E., Skudra, J., Svagere, A., & Gavare, Z. **Analysis of Mercury Pollution in Air in Urban Area of Riga Using Atomic Absorption Spectrometry**. In: Sustainable Development, Knowledge Society and Smart Future Manufacturing Technologies, 2015, 219-228. Springer, Cham. https://doi.org/10.1007/978-3-319-14883-0_15

Baatartsol, D., Suvd, D., Ser-Od, H., Battuvshin, B., Oyu, T., Och, G., ... & Unursaikhan, S. **A study of mercury determination in the waste storage area of health care organizations in Ulaanbaatar City**. In Applied Mechanics and Materials, 2015, 768, 220-224. https://doi.org/10.4028/www.scientific.net/AMM.768.220

2014

Jesús Olivero-Verbel, Fredys Young-Castro, Karina Caballero-Gallardo. **Contaminación por mercurio en aire del distrito minero de San Martín de Loba en el departamento de Bolívar, Colombia**. Rev. Int. Contam. Ambie. 2014, 30(1) 7-13. ISSN 0188-4999

Peplow, D., & Augustine, S. **Neurological abnormalities in a mercury exposed population among indigenous Wayana in Southeast Suriname**. Environmental Science: Processes & Impacts, 2014, 16(10), 2415-2422. https://doi.org/10.1039/C4EM00268G

José Tejero, Pablo L. Higueras, Ignacio Garrido, José M. Esbrí, Roberto Oyarzun, Santiago Español. **An estimation of mercury concentrations in the local atmosphere of Almadén (Ciudad Real Province, South Central Spain) during the twentieth century**. Environ Sci Pollut Res. 22:4833-4841, 2014. https://doi.org/10.1007/s11356-014-2860-5

Laperche V, Hellal J, Maury-Brachet R, et al. **Regional distribution of mercury in sediments of the main rivers of French Guiana (Amazonian basin)**. Springerplus. 2014; 3:322. https://doi.org/10.1186/2193-1801-3-322

Correia J., Cesar R., Marsico E., Diniz G. T.N., Zorro M.C., Castilhos Z. **Mercury contamination in alligators (Melanosuchus niger) from Mamirauá Reservoir (Brazilian Amazon) and human health risk assessment**. Environ. Sci. and Pollution Research, 2014, 21(23), 13522–13527. https://doi.org/10.1007/s11356-014-3282-0

Cho J. H., Eom Y., Lee T. G. **Pilot-test of the calcium sodium phosphate (CNP) process for the stabilization/solidification of various mercury-contaminated wastes**. Chemosphere, 2014, 117, 374–381. https://doi.org/10.1016/j.chemosphere.2014.07.080

Cho J. H., Eom Y., Lee T. G. **Stabilization/solidification of mercury-contaminated waste ash using calcium sodium phosphate (CNP) and magnesium potassium phosphate (MKP) processes**. J. Hazardous Materials, 2014, 278, 474–482. https://doi.org/10.1016/j.jhazmat.2014.06.026

Dago À., González I., Ariño C., Martínez-Coronado A., Higueras P., Díaz-Cruz J.M., Esteban M. **Evaluation of mercury stress in plants from the Almadén mining district by analysis of phytochelatins and their Hg complexes**. Environmental Science & Technology, 2014, 48(11), 6256–6263. https://doi.org/10.1021/es405619y

Esbrí, J. M., López-Berdonces, M. A., Fernández-Calderón, S., Higueras, P., & Díez, S. **Atmospheric mercury pollution around a chlor-alkali plant in Flix (NE Spain): an integrated analysis**.

Environmental Science and Pollution Research, 2014, 22(7), 4842–4850. https://doi.org/10.1007/s11356-014-3305-x

Higueras, P., Lorenzo, S., Esbrí, J. M., García-Noguero, E. M., & Reyes-Bozo, L. **Soil pollution related to mercury-mining activities in the proximity of Usagre (Badajoz, SW Spain)**. International Journal of Mining, Reclamation and Environment, 28(6), 377–388. https://doi.org/10.1080/17480930.2014.967918

Khwaja M.A., Abbasi M.S. **Mercury poisoning dentistry: high-level indoor air mercury contamination at selected dental sites**. Reviews on Environmental Health, 2014, 29(1-2), 29–31. https://doi.org/10.1515/reveh-2014-0010

Mekonnen K.N., Ambushe A.A., Chandravanshi B.S., Redi-Abshiro M., McCrindle R.I. **Assessment of potentially toxic elements in Swiss chard and sediments of Akaki River, Ethiopia**. Toxicological & Environmental Chemistry, 2014, 96(10), 1501–1515. https://doi.org/10.1080/02772248.2015.1025788

Wu, Q., Wang, S., Wang, L., Liu, F., Lin, C.-J., Zhang, L., & Wang, F. **Spatial distribution and accumulation of Hg in soil surrounding a Zn/Pb smelter**. Science of the Total Environment, 2014496, 668–677. https://doi.org/10.1016/j.scitotenv.2014.02.067

A. Polissar, R.L. Lippincott. **Tracking a Potential Mercury Emissions Source – Measurements in the Vicinity of the LCP Chemicals, Inc. Superfund Site in Linden, NJ**. New Jersey Department of Environment Protection, 2014. https://www.nj.gov/dep/dsr/mercury/Tracking%20a%20Potential%20Mercury%20Emissions%20Source_Full%20Report.pdf

O. Phipps, J. Barrett, P. Hesketh, R. Brown. **Risk-based management of mercury-impacted sites**. Network for Industrially Contaminated Land in Europe, 2014. https://nicole.org/uploadedfiles/WGM%202015-06-10%20NICOLE%20Risk%20based%20Management%20of%20Mercury%20Impacted%20Sites.pdf

2013

Higueras P., Esbrí J. M., Oyarzun R., Llanos W., Martínez-Coronado A., Lillo J., López-Berdonces M. A., García-Noguero E. M. **Industrial and natural sources of gaseous elemental mercury in the Almadén district (Spain): An updated report on this issue after the ceasing of mining and metallurgical activities in 2003 and major land reclamation works**. Environ. Res., 2013, 125, 197–208. https://doi.org/10.1016/j.envres.2012.10.011

Vaselli O., Higueras P., Nisi B., Esbrí J. M., Cabassi J., Martínez-Coronado A., Tassi F., Rappuoli D. **Distribution of gaseous Hg in the mercury mining district of Mt. Amiata (Central Italy): A geochemical survey prior the reclamation project**. Environmental Research, 2013, 125, 179–187. https://doi.org/10.1016/j.envres.2012.12.010

Wip, D., Warneke, T., Petersen, A.K. et al. **Urban mercury pollution in the City of Paramaribo, Suriname.** Air Qual Atmos Health 2013, 6, 205–213. https://doi.org/10.1007/s11869-011-0162-3

Cordy P., Veiga M., Crawford B., Garcia O., Gonzalez V., Moraga D., Roeser M., Wip D. **Characterization, mapping, and mitigation of mercury vapour emissions from artisanal mining gold shops**. Environmental Research, 2013, 125, 82-91. https://doi.org/10.1016/j.envres.2012.10.015

Fantozzi L., Ferrara R., Dini, F., Tamburello L., Pirrone N., Sprovieri F. **Study on the reduction of atmospheric mercury emissions from mine waste enriched soils through native grass cover in the Mt. Amiata region of Italy**. Environmental Research, 2013, 125, 69–74. https://doi.org/10.1016/j.envres.2013.02.004

Li P., Feng X., Qiu G., Zhang J., Meng B., Wang J. **Mercury speciation and mobility in mine wastes from mercury mines in China**. Environmental Science and Pollution Research, 2013, 20(12), 8374–8381. https://doi.org/10.1007/s11356-013-1731-9

Mathews T. J., Southworth G., Peterson M. J., Roy W. K., Ketelle R. H., Valentine C., Gregory S. **Decreasing aqueous mercury concentrations to meet the water quality criterion in fish: examining the water–fish relationship in two point-source contaminated streams**. Sci. Total Environ, 2013, 443, 836–843. https://doi.org/10.1016/j.scitotenv.2012.11.042

Miller, C. L., Watson, D. B., Lester, B. P., Lowe, K. A., Pierce, E. M., & Liang, L. **Characterization of soils from an industrial complex contaminated with elemental mercury**. Environmental Research, 2013, 125, 20–29. https://doi.org/10.1016/j.envres.2013.03.013

Qiu G., Feng X., Meng B., Zhang C., Gu C., Du B., Lin Y. **Environmental geochemistry of an abandoned mercury mine in Yanwuping, Guizhou Province, China**. Environmental Research, 2013, 125, 124–130. https://doi.org/10.1016/j.envres.2013.01.008

Yin R., Feng X., Wang J., Li P., Liu J., Zhang Y., Chen J., Zheng L., Hu T. **Mercury speciation and mercury isotope fractionation during ore roasting process and their implication to source identification of downstream sediment in the Wanshan mercury mining area, SW China**. Chemical Geology, 2013, 336, 72–79. https://doi.org/10.1016/j.chemgeo.2012.04.030

Zhu W., Li Z., Chai X., Hao Y., Lin C.J., Sommar J., Feng X. **Emission characteristics and air–surface exchange of gaseous mercury at the largest active landfill in Asia**. Atmospheric Environment, 2013, 79, 188–197. https://doi.org/10.1016/j.atmosenv.2013.05.083

Zhu W., Sommar J., Li Z., Feng X., Lin C. J., Li G. **Highly elevated emission of mercury vapor due to the spontaneous combustion of refuse in a landfill**. Atmospheric Environment, 2013, 79, 540–545. https://doi.org/10.1016/j.atmosenv.2013.07.016

Rognerud S., Dauvalter V. A., Fjeld E., Skjelkvåle B. L., Christensen G., Kashulin N. **Spatial trends of trace-element contamination in recently deposited lake sediment around the Ni–Cu smelter at Nikel, Kola Peninsula, Russian Arctic**. Ambio, 2013, 42(6), 724–736. https://doi.org/10.1007/s13280-013-0384-8

Kono, Y., & Tomiyasu, T. **Quantitative evaluation of real-time measurements of atmospheric mercury in a mercury-contaminated area**. Journal of Environment and Safety, 2013, 4(2), 2_153-2_157. https://doi.org/10.11162/daikankyo.ES12P1201

2012

Alpert G. D., Herman-Haase H., Roberts M. **A field method for the detection of elemental mercury in sink traps**. J. Chemical Health & Safety, 2012, 19(2), 22–26. https://doi.org/10.1016/j.jchas.2011.06.003

Cesar R., Silva M., Colonese J., Bidone E., Egler S., Castilhos Z., Polivanov H. **Influence of the properties of tropical soils in the toxicity and bioavailability of heavy metals in sewage sludge-amended lands**. Environ. Earth Sciences, 2012, 66(8), 2281–2292. https://doi.org/10.1007/s12665-011-1449-2

Drace K., Kiefer A.M., Veiga M.M., Williams M.K., Ascari B., Knapper K.A., Logan K.M., Breslin V.M., Skidmore A., Daniel A. Bolt, Grant Geist, Reidy L., Cizdziel J. V. **Mercury-free, small-scale artisanal gold mining in Mozambique: utilization of magnets to isolate gold at clean tech mine**. J. Cleaner Production., 2012, 88–95. https://doi.org/10.1016/j.jclepro.2012.03.022

Gu Y.-G., Wang Z.-H., Lu S.-H., Jiang S.-J., Mu D.-H., Shu Y.-H. **Multivariate statistical and GIS-based approach to identify source of anthropogenic impacts on metallic elements in sediments from the**

mid Guangdong coasts, China. Environ. Pollution, 2012, 163, 248–255. https://doi.org/10.1016/j.envpol.2011.12.041

Li P., Feng X., Qiu G., Shang L., Wang S. **Mercury pollution in Wuchuan mercury mining area, Guizhou, Southwestern China: The impacts from large scale and artisanal mercury mining**. Environment International, 2012, 42, 59–66. https://doi.org/10.1016/j.envint.2011.04.008

Higueras P., Llanos W., García M. E., Millán R., Serrano C. **Mercury vapor emissions from the Ingenios in Potosí (Bolivia)**. J. Geochemical Exploration, 2012, 116, 1–7. https://doi.org/10.1016/j.gexplo.2011.05.004

Krisnayanti B. D., Anderson C. W. N., Utomo W. H., Feng X., Handayanto E., Mudarisna N., Ikram H., Khususiah. **Assessment of environmental mercury discharge at a four-year-old artisanal gold mining area on Lombok Island, Indonesia.** J. Environmental Monitoring, 2012, 14(10), 2598–2607. https://doi.org/10.1039/C2EM30515A

Qiu G., Feng X., Meng B., Sommar J., Gu C. **Environmental geochemistry of an active Hg mine in Xunyang, Shaanxi Province, China.** Applied Geochemistry, 2012, 27(12), 2280–2288. https://doi.org/10.1016/j.apgeochem.2012.08.003

Thompson M. R. **Mercury contamination review of a residential response**. Professional Safety, 2012, 57(2), 50–58. http://www.asse.org/professionalsafety/search/index3.php?search=1

Zhao L., Yang F., Yan X., Huo Z., Zhang G. **Heavy metal concentrations in surface sediments and Manila clams (Ruditapes philippinarum) from the Dalian coast, China after the Dalian port oil spil**l. Biological Trace Element Research, 2012, 149(2), 241–247. https://doi.org/10.1007/s12011-012-9412-y

2011

A. Yasutake, J.P. Cheng, M. Kiyono, S. Uraguchi, X. Liu, K. Miura, Y. Yasuda, and N. Mashyanov. **Rapid Monitoring of Mercury in Air from an Organic Chemical Factory in China Using a Portable Mercury Analyzer**. TheScientificWorldJOURNAL, 2011, 11, 1630–1640. https://doi.org/10.1100/2011/493207

González-Carrasco V., Velasquez-Lopez P. C., Olivero-Verbel J., Nerlis Pájaro-Castro N. **Air mercury contamination in the gold mining town of Portovelo, Ecuador**. Bulletin of Environmental Contamination and Toxicology, 2011, 87, 250–253. https://doi.org/10.1007/s00128-011-0345-5

John G. Kelly, Fengxiang X. Han,Yi Su, Yunjun Xia, Valerie Philips, Zhiqi Shi, David L. Monts, Sergio T. Pichardo, Kang Xia. **Rapid Determination of Mercury in Contaminated Soil and Plant Samples Using Portable Mercury Direct Analyzer without Sample Preparation, a Comparative Study**. Water Air Soil Pollut., 2012, 223, 2361–2371. https://doi.org/10.1007/s11270-011-1030-3

Sh. Tserenpil, Liu Cong-Qiang. **Study of antimony (III) binding to soil humic acid from an antimony smelting site.** Microchemical Journal, 2011, 98, 15–20. https://doi.org/10.1016/j.microc.2010.10.003

Ricardo Cesar, Silvia Egler, Helena Polivanov, Zuleica Castilhos, Ana Paula Rodrigues. **Mercury, copper and zinc contamination in soils and fluvial sediments from an abandoned gold mining area in southern Minas Gerais State, Brazil**. Environ Earth Sci., 2011 64, 211–222. https://doi.org/10.1007/s12665-010-0840-8

Paul Cordy, Marcello M. Veiga, Ibrahim Salih, Sari Al-Saadi, Stephanie Console, Oseas Garcia, Luis Alberto Mesa, Patricio C. Velásquez-López, Monika Roeser. **Mercury contamination from artisanal gold mining in Antioquia, Colombia: The world's highest per capita mercury pollution**. Science of the Total Environment, 2011, 410-411, 154–160. https://doi.org/10.1016/j.scitotenv.2011.09.006

David Kocman, Polona Vreca, Vesna Fajon, Milena Horvat. **Atmospheric distribution and deposition of mercury in the Idrija Hg mine region, Slovenia**. Environ. Res. 2011, 111, 1–9. https://doi.org/10.1016/j.envres.2010.10.012

Tanja Ljubic Mlakar, Milena Horvat, Jože Kotnik, Zvonka Jeran, Tomaž Vuk, Tanja Mrak, Vesna Fajon. **Biomonitoring with epiphytic lichens as a complementary method for the study of mercury contamination near a cement plant.** Environ Monit Assess., 2011, 181, 225–241. https://doi.org/10.1007/s10661-010-1825-5

A. Martínez-Coronado, R. Oyarzun, J.M. Esbrí, W. Llanos, P. Higueras. **Sampling high to extremely high Hg concentrations at the Cerco de Almadenejos, Almadén mining district (Spain): The old metallurgical precinct (1794 to 1861 AD) and surrounding areas**. J. Geochem. Explor., 2011, 109, 70–77. https://doi.org/10.1016/j.gexplo.2010.04.007

Sh Tserenpil, Liu Cong-Qiang. **Study of antimony (III) binding to soil humic acid from an antimony smelting site**. Microchemical Journal, 2011, 98, 15–20. https://doi.org/10.1016/j.microc.2010.10.003

Willians Llanos, David Kocman, Pablo Higueras and Milena Horvat. **Mercury emission and dispersion models from soils contaminated by cinnabar mining and metallurgy**. J. Environ. Monit., 2011, 13, 3460. https://doi.org/10.1039/c1em10694e

Patricio C. Velásquez-López, Marcelo M. Veiga, Bern Klein, Janis A. Shandro, Ken Hall. **Cyanidation of mercury-rich tailings in artisanal and small-scale gold mining: identifying strategies to manage environmental risks in Southern Ecuador**. Journal of Cleaner Production, 2011, 19, 1125-1133. https://doi.org/10.1016/j.jclepro.2010.09.008

Bogans E., Gavare Z., Svagere A., Poikane R., Skudra J. **Mercury pollution exploration in Latvia with high-sensitivity Zeeman atomic absorption spectrometry**. Scientific Journal of Riga Technical University. Environ. Climate Technol., 2011, 7, 39–45. https://doi.org/10.2478/v10145-011-0026-y

Deng C., Zhang C., Li L., Li Z., Li N. **Mercury contamination and its potential health effects in a lead–zinc mining area in the karst region of Guangxi, China**. Applied Geochemistry, 2011, 26(2), 154–159. https://doi.org/10.1016/j.apgeochem.2010.11.013

Webber W. B., Ernest L. J., Vangapandu S. **Mercury exposures in university herbarium collections**. Journal of Chemical Health and Safety, 2011, 18(2), 9–12. https://doi.org/10.1016/j.jchas.2010.04.003

2010

Gustaitis M. A., Lazareva E. V., Bogush A. A., Shuvaeva O. V., Shcherbakova I. N., Polyakova E. V., Badmaeva Zh. O., Anoshin G. N. **Distribution of mercury and its species in the zone of sulphide tailing**. Doklady Earth Sciences, 2010, 432(2), 778–782. https://doi.org/10.1134/S1028334X10060152

Li J., Yang Y., Chen H., Xiao G., Wei S. **Sourcing contributions of gaseous mercury in indoor and outdoor air in China**. Environmental Forensics, 2010, 11(1–2), 154– 160. https://doi.org/10.1080/15275920903558919

Llanos W., Higueras P., Oyarzun R., Esbrí J. M., López-Berdonces M. A., García-Noguero E. M., Martínez-Coronado A. **The MERSADE (European Union) project: Testing procedures and environmental impact for the safe storage of liquid mercury in the Almadén district, Spain.** Sci. Total Environment, 2010, 408(20), 4901–4905. https://doi.org/10.1016/j.scitotenv.2010.05.026

Velásquez-López P. C., Veiga M. M., Hall K. **Mercury balance in amalgamation in artisanal and small-scale gold mining: identifying strategies for reducing environmental pollution in Portovelo-Zaruma, Ecuador**. J. Cleaner Production, 2010, 18(3), 226–232. https://doi.org/10.1016/j.jclepro.2009.10.010

2009

Oyarzun R., Cubas P., Higueras P., Lillo J., Llanos W. **Environmental assessment of the arsenic-rich, Rodalquilar gold–(copper–lead–zinc) mining district, SE Spain: data from soils and vegetation**. Environmental Geology, 2009, 58(4), 761–777. https://doi.org/10.1007/s00254-008-1550-3

Pandey S. K., Kim K.-H., Yim U-H., Jung M.-C., Kang C.-H. **Airborne mercury pollution from a large oil spill accident on the west coast of Korea**. J.Hazardous Materials, 2009, 164(1), 380–384. https://doi.org/10.1016/j.jhazmat.2008.07.126

Shandro J. A., Veiga M. M., Chouinard R. **Reducing mercury pollution from artisanal gold mining in Munhena, Mozambique**. J. Cleaner Production, 2009, 17(5), 525–532. https://doi.org/10.1016/j.jclepro.2008.09.005

2008

Ping Li, Xinbin Feng, Guangle Qiu, Lihai Shang, Shaofeng Wang. **Mercury exposure in the population from Wuchuan mercury mining area, Guizhou, China**. Science Total Environ., 2008, 395, 72 – 7 9. https://doi.org/10.1016/j.scitotenv.2008.02.006

Guanghui Li, Xinbin Feng, Guangle Qiu, Xiangyang Bi, Zhonggen Li, Cheng Zhang, Dingyong Wang, Lihai Shang, Yanna Guo. **Environmental mercury contamination of an artisanal zinc smelting area in Weining County, Guizhou, China**. Environmental Pollution, 2008, 154, 21-31. https://doi.org/10.1016/j.envpol.2007.11.012

Garetano G., Stern A. H., Robson M., Gochfeld M. **Mercury vapor in residential building common areas in communities where mercury is used for cultural purposes versus a reference community**. Sci. Total Environment, 2008, 397(1–3), 131–139. https://doi.org/10.1016/j.scitotenv.2008.02.034

2007

Morrison M. **Exposure assessment of household mercury spills.** J. Chemical Health and Safety, 2007, 14(1), 17–21. https://doi.org/10.1016/j.jchas.2006.08.004

Azziz-Baumgartner E, Luber G, Schurz-Rogers H, Backer L, Belson M, Kieszak S, Caldwell K, Lee B, Jones R, Todd R, Rubin C. **Exposure assessment of a mercury spill in a Nevada school -- 2004**. Clin Toxicol (Phila). 2007, 45(4):391-5. https://doi.org/10.1080/15563650601031569

2006

Baughman Th. A. **Elemental mercury spills**. Environmental Health Perspectives, 2006, 114(2), 147-152. https://doi.org/10.1289/ehp.7048

Garetano G., Gochfeld M., Stern A. H. **Comparison of indoor mercury vapor in common areas of residential buildings with outdoor levels in a community where mercury is used for cultural purposes.** Environmental Health Perspectives, 2006, 114(1), 59–62. https://doi.org/10.1289/ehp.8410

Riley D. M., Newby C. A., Leal-Almeraz T. O. **Incorporating ethnographic methods in multidisciplinary approaches to risk assessment and communication: cultural and religious uses of mercury in Latino and Caribbean communities**. Risk Analysis, 2006, 26(5), 1205. https://doi.org/10.1111/j.1539-6924.2006.00809.x

Feng X., Dai Q., Qiu G., Li G., He L., Wang D. **Gold mining related mercury contamination in Tongguan, Shaanxi Province, PR China**. Applied Geochemistry, 2006, 21(11), 1955–1968. https://doi.org/10.1016/j.apgeochem.2006.08.014

Garcia-Sanchez A, Contreras F, Adams M, Santos F. **Airborne total gaseous mercury and exposure in a Venezuelan mining area**. Internat. J. Environmental Health Research, 2006, 16(5), 361–373. https://doi.org/10.1080/09603120600869315

Garcia-Sanchez A, Contreras F, Adams M, Santos F. **Atmospheric mercury emissions from polluted gold mining areas (Venezuela)**. Environ Geochemistry and Health, 2006, 28(6), 529–540. https://doi.org/10.1007/s10653-006-9049-x

Molina J. A., Oyarzun R., Esbre J. M., Higueras P. **Mercury accumulation in soils and plants in the Almaden mining district, Spain: one of the most contaminated sites on Earth.** Environmental Geochemistry and Health, 2006, 28(5), 487–498. https://doi.org/10.1007/s10653-006-9058-9

Spiegel S. J., Savornin O., Shoko D., Veiga M. M. **Mercury reduction in Munhena, Mozambique: homemade solutions and the social context for change**. Internat. J. Occupational and Environmental Health, 2006, 12(3), 215–221. https://doi.org/10.1179/oeh.2006.12.3.215

2005

Lindberg S.E., Southworth G.R., Bogle M.A., Blasing T.J., Owens J., Roy K., Zhang H., Kuiken T., Price J., Reinhart D., Sfeir H. **Airborne emissions of mercury from municipal solid waste. I: New measurements from six operating landfills in Florida**. J. Air & Waste Management Association, 2005, 55(7), 859–869. https://doi.org/10.1080/10473289.2005.10464684

2004

N. Mashyanov, S. Pogarev, V. Ryzhov, A. Matsuyama, H. Akagi. **Mercury thermo-speciation in contaminated soils and sediments**. RMZ – Materials and Geoenvironment, 2004, 51(3), 1980-1983. http://www.rmz-mg.com/letniki/rmz51/rmz51_1851-2067.pdf

John S. Kinseya, F.R. Anscombe, Steven E. Lindberg, George R. Southworth. **Characterization of the fugitive mercury emissions at a chlor-alkali plant: overall study design**. Atmospheric Environment, 2004, 38, 633–641. https://doi.org/10.1016/j.atmosenv.2003.09.059

Pablo Higueras, Roberto Oyarzun, Jorge Oyarzún, Hugo Maturana, Javier Lillo, Diego Morata. **Environmental assessment of copper–gold–mercury mining in the Andacollo and Punitaqui districts, northern Chile**. 2004, Appl. Geochem., 19(11), 1855-1864. https://doi.org/10.1016/j.apgeochem.2004.04.001

Hawks C., Makos K., Bell D., Wambach P. F., Burroughs G. E. **An inexpensive method to test for mercury vapor in herbarium cabinets**. Taxon. 2004, 53(3), 783–790. https://doi.org/10.2307/4135451

G. Garetano. **Assessment of mercury vapor concentration in residential buildings using real time direct reading instruments**. Epidemiology, 2004, 15(4), 193-194.

2003

J.T. Morgan, E. Swain, M. Allan. **Identification of atmospheric mercury sources in the Great Lakes states through an ambient monitoring program**. Minnesota Pollution Control Agency, 2003. https://www.michigan.gov/documents/deq/deq-aqd-toxics-hgfinalreport_272066_7.pdf

Fish & Water Ecosystems

2026

Monteiro, L. C., Costa, F. J. V., de Carvalho, C. B. V., Júnior, A. S., Duar, B. A., & Bernardi, J. V. E. **Mercury contamination imported shark meat ("cação") and implications for human exposure in Brazil**. Regional Studies in Marine Science, 2026, 105214. https://doi:10.1016/j.rsma.2026.105214

Fan, R., Li, X., Hao, S., Yuliang, X., Zong, J., Gao, Y., ... & Zhang, G. **Environmental processes and ecosystem services of self-purifying mercury in constructed wetlands in industrial cities: a case study of the main urban area of Changchun, Yitong River**. Frontiers in Environmental Science, 2026, 14, 1751485. https://doi:10.3389/fenvs.2026.1751485

Austoni, M., Fantozzi, L., and Luciano, G. **Spatial Dynamics of Mercury and Phytoplankton in Lake Maggiore: An Integrated Monitoring Approach**. EGU General Assembly 2026, Vienna, Austria, EGU26-22477. https://doi:10.5194/egusphere-egu26-22477

Sarah E. Rothenberg, Eric Johnson, Jane LaDu, Lindsey St. Mary, Jay C. Adams, Kate Rice, Brian P. Jackson, Robyn L. Tanguay, Lisa Truong. **Zebrafish parental co-exposure to environmentally relevant levels of inorganic arsenic+ methylmercury impacts neurobehavior in parents and progeny**. Environmental toxicology and pharmacology, 2026, 104970. https://doi:10.1016/j.etap.2026.104970

Monteiro, L. C., Campos, T. N. D. S., Santos, V. C. D. S., Santos, L. J. S., Couto, D., Almeida, C. P. D., ... & Vieira, L. C. G. **A Snapshot of Species Composition and Mercury Bioaccumulation in Fish from Natural and Constructed Wetlands**. Fishes, 11(3), 2026, 176. https://doi:10.3390/fishes11030176

Gustaytis, M., Maltsev, A., Leonova, G., & Krivonogov, S. **Mercury species in zooplankton, brine, and bottom sediments of Hyperhaline Lake Bolshoye Yarovoye (South of Western Siberia)**. Environmental Earth Sciences, 85(1), 32. https://doi:10.1007/s12665-025-12735-x

Barquero, J. I., Higueras, P., Esbrí, J. M., Jaeger, J. L., & García-Ordiales, E. **Evaluation of the new role of the invasive species (Procambarus clarkii) as an environmental indicator in polluted watersheds**. Environmental Geochemistry and Health, 2026, 48(2), 82. https://doi:10.1007/s10653-025-02953-4

2025

Caraballo-Laza, M. J., Ossa-Henao, D. M., Urango-Cardenas, I., Rosso-Pinto, M., Guimarães, J. R. D., Paternina-Uribe, R., ... & Marrugo-Negrete, J. **Composting as a Sustainable Approach for Managing Mercury-Contaminated Aquatic Biomass**. Toxics, 2025, 13(7), 553. https://doi:10.3390/toxics13070553

Gremyachikh, V. A., Komov, V. T., Ivanov, E. A., Mordvintsev, I. N., Naidenko, S. V., Platonov, N. G., ... & Rozhnov, V. V. **Total Mercury and Stable Nitrogen and Carbon Isotope Content in Polar Bear Hair in the Russian Arctic**. Russian Journal of Ecology, 2025, 56(4), 366-374. https://doi:10.1134/S1067413625600727

Ajiboye, O. R., Lawal-Are, A. O., Obiakara-Amaechi, A. I., & Moruf, R. O. **Preliminary Ecological Risk Assessment of Toxic Elements in Fish Cage Culture Sites within the Interconnected Epe and Badagry Lagoons, Nigeria**. Acta Natura et Scientia, 2025, 6(1), 1-11. https://doi:10.61326/actanatsci.v6i1.322

Johs, A., Goñez-Rodríguez, L., Brooks, S. C., & Mayes, M. A. **Mobilization of mercury from contaminated creekbank soils**. Journal of Soils and Sediments, 2025, 1-12. https://doi:10.1007/s11368-025-04014-w

Ivanova, E. S., Udodenko, Y. G., Tropin, N. Y., Borisov, M. Y., Rumiantseva, O. Y., Bazhenova, D. E., & Komov, V. T. **Effect of age-related dietary changes on mercury accumulation in European perch**

(Perca fluviatilis) in a large mesotrophic lake in the taiga zone (Northwestern Russia). Ecotoxicology, 2025, 1-9. https://doi:10.1007/s10646-025-02886-9

Aksentov, K., Kalinchuk, V., & Semkin, P. **Mercury accumulation by diatoms in the ice covered Partizanskaya River Estuary (Primorsky Territory, Russia) during the winter bloom**. Regional Studies in Marine Science, 2025, 104294. https://doi:10.1016/j.rsma.2025.104294

Javier, G. B., Juan, V. V., Margareth, D. I., Lucellys, S. M., & Jesus, O. V. **Environmental pollution by mercury and trace metals in highly vulnerable afro-descendant territories in the Department of Cauca, Colombia**. Soil and Sediment Contamination: An International Journal, 2025, 34(3), 510-527. https://doi:10.1080/15320383.2024.2359067

Barquero, J. I., Hidalgo, J. J., Esbrí, J. M., Higueras, P., & García-Ordiales, E. **A preliminary assessment of mercury, methylmercury and other potentially toxic elements in largemouth bass (Micropterus salmoides) from the Almadén mining district**. Environmental Geochemistry and Health, 2025, 47(1), 27. https://doi:10.1007/s10653-024-02326-3

2024

Zong, J., Zhang, H., Li, X., Bai, X., Hu, Y., Cui, D., ... & Zhang, G. **Process of mercury accumulation in urban strip river artificial wetland ecosystems: a case study of Changchun, a typical industrial city in Northeast China**. Frontiers in Plant Science, 2024, 15, 1392904. https://doi:10.3389/fpls.2024.1392904

Krylov, V. V., Golovanova, I. L., Filippov, A. A., Osipova, E. A., & Kulivatskaya, E. A. **Effects of mercury and magnetic fields on the activity of proteinases and glycosidases in the intestine of common carp Cyprinus carpio**. Environmental Monitoring and Assessment, 2024, 196(11), 1-12. https://doi:10.1007/s10661-024-13274-x

Geeza, T. J., Stevenson, L. M., & Mathews, T. J. **Uptake, Efflux, and Sequestration of Mercury in the Asian Clam, Corbicula fluminea, at Environmentally Relevant Concentrations, and the Implications for Mercury Remediation**. Water, 2024, 16(20), 2931. https://doi:10.3390/w16202931

Marrugo-Negrete, J., Paternina-Uribe, R., Enamorado-Montes, G., Herrera-Arango, J., Rosso-Pinto, M., Ospino-Contreras, J., & Pinedo-Hernández, J. **Groundwater quality assessment in the La Mojana region of northern Colombia: implications for consumption, irrigation, and human health risks**. Applied Water Science, 2024, 14(5), 96. https://doi:10.1007/s13201-024-02156-9

Quintarelli, J. M., Garnier, J., de Souza, J. P. R., de Sousa Tonhá, M., Barral, U. M., Roig, H. L., ... & Souza, J. R. **Mercury in river samples with artisanal and small-scale gold mining influence: The case of the upper Madeira River Basin (Brazil/Bolivia)**. Journal of South American Earth Sciences, 2024, 145, 105070. https://doi:10.1016/j.jsames.2024.105070

Álvarez, R., Izquierdo, M., Serrano, H., García-Ordiales, E., García, C., Alberquilla, F., ... & Ordóñez, A. **Comparison of sediment bioavailable methods to assess the potential risk of metal (loid) s for river ecosystems**. Ecotoxicology and Environmental Safety, 2024, 281, 116614. https://doi.org/10.1016/j.ecoenv.2024.116614

Udodenko, Y.G., Solovyeva, M.A., Glazov, D. M., Klimov, F.V., Komov, V.T., Kamshilova, T.B., & Rozhnov, V.V. **Total mercury in fur, whiskers and whole blood of Caspian seals (Pusa capsica) from north-east of Caspian Sea (Kazakhstan)**. Marine Pollution Bulletin, 2024, 205, 116605.

Payuta, A.A., Flerova, E.A., Guldina, D.A. et al. **Relationship of Size and Mass Characteristics, Indicators of Metabolism, and Mercury Concentration in the Muscle Tissue of Freshwater Fish from Tropical Vietnam**. Inland Water Biol., 2024, 17, 296–306. https://doi.org/10.1134/S1995082924020123

Yi Tang, Yang Liu, Yong He, Jiaodi Zhang, Huaming Guo, Wenxin Liu**. Quantifying the impact of anthropogenic emissions and aquatic environmental impacts on sedimentary mercury variations in a typical urban river**. Environmental Pollution, 2024, 355, 124185. https://doi.org/10.1016/j.envpol.2024.124185

Higueras, P., Barquero, J.I., Bakale, F., Esbrí, J.M., and García Ordiales, E. **Bioaccumulation of mercury in muscle tissue and hepatopancreas in red crayfish (Procambarus clarkii) in a transect of the Valdeazogues river and tributaries, Almadén Hg mining district, south central Spain**. EGU General Assembly, 2024, EGU24-9369. https://doi.org/10.5194/egusphere-egu24-9369

Monteiro, L.C., Vieira, L.C.G., Bernardi, J.V.E., do Nascimento Recktenvald, M.C.N., da Costa Nery, A.F., Fernandes, I.O., ... & Bastos, W.R. **Mercury distribution, bioaccumulation, and biomagnification in riparian ecosystems from a Neotropical savanna floodplain, Araguaia River, Central Brazil**. Environmental Research, 2024, 118906. https://doi.org/10.1016/j.envres.2024.118906

Fernandes, I.O., Monteiro, L.C., de Miranda, V.L., Rodrigues, Y.O.S., de Freitas Muniz, D.H., de Castro Paes, É., & Bernardi, J.V.E. **Mercury distribution in organisms, litter, and soils of the Middle Araguaia floodplain in Brazil**. Environmental Science and Pollution Research, 2024, 1-16. https://doi.org/10.1007/s11356-024-32317-x

Marrugo-Negrete, J., Paternina-Uribe, R., Enamorado-Montes, G., Herrera-Arango, J., Rosso-Pinto, M., Ospino-Contreras, J., & Pinedo-Hernández, J. **Groundwater quality assessment in the La Mojana region of northern Colombia: implications for consumption, irrigation, and human health risks**. Appl Water Sci, 2024, 14(96). https://doi.org/10.1007/s13201-024-02156-9

2023

Prishchepenko, D.V., Ryabchuk, D.V., Zhamoida, V.A., Sergeev, A.Y., Leontev, F.A., Grigoriev, A.G., ... & Kovaleva, O.A. **Main trends and results of 300-years anthropogenic impact on the geological environment and ecosystem of the Eastern Gulf of Finland**. Continental Shelf Research, 2023, 265, 105058. https://doi.org/10.1016/j.csr.2023.105058

Cai, X., Fan, Y., Hong, Q., Liu, Z., Qu, Z., Yan, N., & Xu, H. **Unveiling the Halogenation-Induced Formation of $Hg_3Se_2X_2$ (X= Cl, Br, and I) Compounds for Multiphase Mercury Cycling**. Environmental Science & Technology, 2023, 57(48), 20431–20439. https://doi.org/10.1021/acs.est.3c08021

Borisov, M.Y., Ivanova, E.S., Tropin, N.Y., Shilova, A.E., Ugryumova, E.V., & Bazhenova, D.E. **Assessing the consumptive safety of fish with different mercury content in its muscles (water bodies of Vologda Oblast as a case study)**. Ecosystem Transformation, 2023, 6,4 (22), 97-118. https://doi.org/10.23859/estr-230920

Seleznev, D., Dinh, C.N., Hai, T.B., Karpova, E., Chi, D.T.K., Kosolapov, D., ... & Tiunov, A.V. **Biodiversity of aquatic organisms in the Mekong Delta, Vietnam**. Biodiversity Data Journal, 2023, 11. https://doi.org/10.3897/BDJ.11.e105314

Monteiro, L.C., Vieira, L.C.G., Bernardi, J.V.E., Bastos, W R., de Souza, J.P.R., do Nascimento Recktenvald, M.C.N., ... & de Souza, J.R. **Local and landscape factors influencing mercury distribution in water, bottom sediment, and biota from lakes of the Araguaia River floodplain, Central Brazil**. Science of The Total Environment, 2023, 168336. https://doi.org/10.1016/j.scitotenv.2023.168336

Moraes, L.d.C.; Bernardi,J.V.E.; Souza, J.P.R.d.; Portela, J.F.;Pereira, H.R.; Barbosa, H.d.O.; Pires,N.L.; Monteiro, L.C.; Rodrigues,Y.O.S.; Vieira, L.C.G.; et al. **Mercury Contamination as an Indicator of Fish Species' Trophic Position in the Middle Araguaia River, Brazil**. Toxics, 2023, 11, 886. https://doi.org/10.3390/tox-ics1111088

Moraes, L.; Bernardi, J.V.E.; de Souza, J.P.R.; Portela, J.F.; et al. **Sediment Mercury, Geomorphology and Land Use in the Middle Araguaia River Floodplain (Savanna Biome, Brazil)**. Soil Systems, 2023, 7(97). https://doi.org/10.3390/soilsystems7040097

Barquero, J.I., Hidalgo, J.J., Esbrí, J.M., Higueras, P.L., & Garcia-Ordiales, E. **Mercury, Methylmercury and Other Potentially Toxic Elements in Black Bass (Micropterus Salmoides) from the Almadén Mining District: Concentration, Dispersion and Risk Concerns**. 2023. https://doi.org/10.2139/ssrn.4534150

Berezina, N., Maximov, A., Sharov, A., Gubelit, Y., & Kholodkevich, S. **Environmental Assessment with Cage Exposure in the Neva Estuary, Baltic Sea: Metal Bioaccumulation and Physiologic Activity of Bivalve Molluscs**. Journal of Marine Science and Engineering, 2023, 11(9), 1756. https://doi.org/10.3390/jmse11091756

Du, H., Yin, X., Gu, X., Wang, D., Pierce, E. M., & Gu, B. **Dissolved Elemental Mercury [Hg (0) aq] Reactions and Purgeability in the Presence of Organic and Inorganic Particulates**. Environmental Science & Technology Letters, 2023, 10(8), 691-697. https://doi.org/10.1021/acs.estlett.3c00275

Liang, X., Zhong, H., Johs, A. et al. **Light-independent phytoplankton degradation and detoxification of methylmercury in water**. Nat Water, 2023, 1, 705–715. https://doi.org/10.1038/s44221-023-00117-1

Dórea, J. G., Monteiro, L. C., Bernardi, J. V. E., Fernandes, I. O., Oliveira, S. F. B., de Souza, J. P. R., ... & de Souza, J. R. **Land use impact on mercury in sediments and macrophytes from a natural lake in the Brazilian savanna**. Environmental Pollution, 122414. https://doi.org/10.1016/j.envpol.2023.122414

Fernandes, I.O., Monteiro, L.C., De Miranda, V.L., Rodrigues, Y.O.S., Muniz, D.H.D.F., Paes, É.D.C., & Bernardi, J.V.E. **Mercury Dynamics in Organims, Litter, and Soils of the Middle Araguaia Floodplain in Brazil**. Research Square, 2023. https://doi.org/10.21203/rs.3.rs-2398248/v1

Geeza, T.J., Stevenson, L.M., & Mathews, T.J. **Uptake, Efflux, and Sequestration of Hg in the Asian Clam, Corbicula fluminea, at Environmentally Relevant Concentrations, and the Implications for Hg Remediation**. Research square, 2023. https://doi.org/10.21203/rs.3.rs-2882149/v1

Wang, S., Song, Y., Wang, J., Liu, J., Huang, X., & Guo, P. **Research of Mercury Methylation and Biological Toxicity Effects of Different Inorganic Mercury in Mariculture Sediments**., 2013. https://doi.org/10.2139/ssrn.4411780

Laske, S.M., Burke, S.M., Carey, M.P., Swanson, H.K., & Zimmerman, C.E. **Investigating effects of climate-induced changes in water temperature and diet on mercury concentrations in an Arctic freshwater forage fish**. Environmental Research, 2023, 218, 114851. https://doi.org/10.1016/j.envres.2022.114851

Vezzone, M., Cesar, R., Serrano, A., Lourenço, R., Rodrigues, A. P., Castilhos, Z., ... & Polivanov, H. **Mercury Contamination in Sediments and Fish from an Urban Tropical Estuary: Ecological and Human Health Risks**. Water, Air, & Soil Pollution, 2023, 234(2), 72. doi:10.1007/s11270-023-06089-y

de Pontes, G. C., de Carvalho Vicente, M., Kasper, D., Machado, W. T., & Wasserman, J. C. **Spatial distribution of total mercury and methylmercury in the sediment of a tropical coastal environment subjected to heavy urban inputs**. Chemosphere, 2023, 312, 137067. https://doi.org/10.1016/j.chemosphere.2022.137067

2022

Teixeira, M., Cesar, R., Abessa, D., Siqueira, C., Lourenço, R., Vezzone, M., ... & Castilhos, Z. **Ecological risk assessment of metal and hydrocarbon pollution in sediments from an urban tropical estuary:**

Tijuca lagoon (Rio de Janeiro, Brazil). Environmental Science and Pollution Research, 2022, 1-17. https://doi.org/10.1007/s11356-022-22214-6

Siqueira, D., Cesar, R., Lourenço, R., Salomão, A., Marques, M., Polivanov, H., ... & Castilhos, Z. C. **Terrestrial and aquatic ecotoxicity of iron ore tailings after the failure of VALE SA mining dam in Brumadinho (Brazil)**. Journal of Geochemical Exploration,2022, 235, 106954. https://doi.org/10.1016/j.gexplo.2022.106954

Grebenshchikova, V.I., & Kuzmin, M.I. **Mercury in the Baikal aquatic ecosystem (Lake Baikal, its tributaries, Angara River source)**. Limnology and Freshwater Biology, 2022, 1302-1304. https://doi.org/10.31951/2658-3518-2022-A-3-1302

Malov, V., Subetto, D., Strakhovenko, V., Ovdina, E., & Belkina, N. **Distribution of Mercury in the Water-Suspended Matter-Bottom Sediments System of the Lake Onego Water Area**. Minerals, 2022, 12(11), 1410. https://doi.org/10.3390/min12111410

Floreani, F., Acquavita, A., Barago, N., Klun, K., Faganeli, J., & Covelli, S. **Gaseous Mercury Exchange from Water–Air Interface in Differently Impacted Freshwater Environments**. International Journal of Environmental Research and Public Health, 2022, 19(13), 8149. https://doi.org/10.3390/ijerph19138149

Marrugo-Madrid, S., Fontàs, C., Kurt, G., Salazar-Camacho, C., Salas-Moreno, M., Gutierrez-Mosquera, H., ... & Díez, S. **Benzoylthiourea based polymers as new binding agents for diffusive gradients in thin films technique in labile mercury determination in freshwaters**. Environmental Technology & Innovation, 2022, 28, 102911. https://doi.org/10.1016/j.eti.2022.102911

Floreani, F.; Acquavita, A.; Barago, N.; Klun, K.; Faganeli, J.; Covelli, S. **Gaseous Mercury Exchange fromWater–Air Interface in Differently Impacted Freshwater Environments**. Int. J. Environ. Res. Public Health, 2022, 19, 8149. https://doi.org/10.3390/ijerph19138149

Caballero-Gallardo, K., Palomares-Bolaños, J. & Olivero-Verbel, J. **Mercury Concentrations in Water, Sediments, Soil, and Fish Around Ancestral Afro-Descendant Territories Impacted by Gold Mining in the Cauca Department, Colombia**. Water Air Soil Pollut., 2022, 233, 393. https://doi.org/10.1007/s11270-022-05779-3

Udodenko, Y.G., Robinson, C.T., Choijil, J. et al. **Mercury levels in sediment, fish and macroinvertebrates of the Boroo River, northern Mongolia, under the legacy of gold mining**. Ecotoxicology, 2022. https://doi.org/10.1007/s10646-021-02502-6

Ivanova, E., Eltsova, L., Komov, V., Borisov, M., Tropin, N., Borboshova, S., ... & Udodenko, Y. **Assessment of the consumptive safety of mercury in fish from the surface waters of the Vologda region in northwestern Russia**. Environmental Geochemistry and Health, 2022, 1-17. https://doi.org/10.1007/s10653-022-01254-4

Myagkaya, I. N., Gustaytis, M. A., Saryg-ool, B. Y., & Lazareva, E. V. **Mercury Partitioning and Behavior in Streams and Source Areas Affected by the Novo-Ursk Gold Sulfide Tailings (West Siberia, Russia)**. Mine Water and the Environment, 2022, 1-21. https://doi.org/10.1007/s10230-022-00859-6

2021

Kaiyun Liu, Qingru Wu, Shuxiao Wang, Daiwei Ouyang, et al. **Highly Resolved Inventory of Mercury Release to Water from Anthropogenic Sources in China**. Environ. Sci. Technol., 2021, 55, 20, 13860–13868. https://doi.org/10.1021/acs.est.1c03759

Alyssa A. Carrell, Grace E. Schwartz, Melissa A. Cregger, Caitlin M. Gionfriddo, Dwayne A. Elias, Regina L. Wilpiszeski, Dawn M. Klingeman, Ann M. Wymore, Katherine A. Muller and Scott C. Brooks.

Nutrient Exposure Alters Microbial Composition, Structure, and Mercury Methylating Activity in Periphyton in a Contaminated Watershed. Front. Microbiol., 2021. https://doi.org/10.3389/fmicb.2021.647861

Zhi-Hua Li, Ping Li, Yanhua Wu. **Effects of temperature fluctuation on endocrine disturbance of grass carp Ctenopharyngodon idella under mercury chloride stress**. Chemosphere, 2021, 263, 128137. https://doi.org/10.1016/j.chemosphere.2020.128137

Alexei S. Rozanov, Irina N. Myagkaya, Anton V. Korzhuk, Nikita I. Ershov, Ivan S. Kirichenko, Maria A. Gustaytis, Bagai-ool Yu. Saryg-ool, Victor I. Malov, Aleksandra A. Shipova, Elena V. Lazareva, Sergey E. Peltek. **Metagenomics data of microbial communities in bacterial mats and bottom sediments in water bodies within the Kurai Mercury Province (Gorny Altai, Russia)**. Data in Brief, 2021, 36. https://doi.org/10.1016/j.dib.2021.107099

Poletaeva, V.I., Pastukhov, M.V. & Tirskikh, E.N. **Dynamics of Trace Element Composition of Bratsk Reservoir Water in Different Periods of Anthropogenic Impact (Baikal Region, Russia)**. Arch Environ Contam Toxicol., 2021, 80, 531–545. https://doi.org/10.1007/s00244-021-00819-1

Rothenberg, S.E., Korrick, S.A., Liu, J. et al. **Maternal methylmercury exposure through rice ingestion and child neurodevelopment in the first three years: a prospective cohort study in rural China**. Environ Health, 2021, 20(50). https://doi.org/10.1186/s12940-021-00732-z

Alyssa A. Carrell, Grace E. Schwartz, Melissa A. Cregger, Caitlin M. Gionfriddo, Dwayne A. Elias, Regina L. Wilpiszeski, Dawn M. Klingeman, Ann M. Wymore, Katherine A. Muller and Scott C. Brooks. **Nutrient Exposure Alters Microbial Composition, Structure, and Mercury Methylating Activity in Periphyton in a Contaminated Watershed**. Frontiers in Microbiology, 2021, 12. https://doi.org/10.3389/fmicb.2021.647861

Ping Li, Zhi-Hua Li, Yanhua Wu. **Interactive effects of temperature and mercury exposure on the stress-related responses in the freshwater fish *Ctenopharyngodon Idella***. Aquaculture Research, 2021, 52(5), 2070-2077. https://doi.org/10.1111/are.15058

M.I. Shapovalova, V.A. Gremyachikh, V.T. Komov. **Effects of Polymetallic Ore Occurrences on Mercury Accumulation by Aquatic Biota in River Ecosystems**. Inland Water Biology, 2021, 14(6), 766–776. https://doi.org/10.1134/S199508292105014X

Shutang Li, Haomiao Xu, Longlong Wang, Leipeng Ji, Xianwei Li, Zan Qu, Naiqiang Yan. **Dual-functional Sites for Selective Adsorption of Mercury and Arsenic ions in [SnS4]4-/MgFe-LDH from Wastewater**. J. Hazardous Materials, 2021, 403, 123940. https://doi.org/10.1016/j.jhazmat.2020.123940

V. Pellinen, T. Cherkashina, M. Gustaytis. **Assessment of metal pollution and subsequent ecological risk in the coastal zone of the Olkhon Island, Lake Baikal, Russia**. Sci. Total Environment, 2021, 786, 147441. https://doi.org/10.1016/j.scitotenv.2021.147441

Patova, E.N., Kondratenok, B.M., Sivkov, M.D., & Kostrova, S.N. **Water quality of the Vychegda River under the conditions of the receipt of treated wastewater from the pulp and paper industry**. Contemporary Problems of Ecology, 2021, 14(6), 588-605. https://doi.org/10.1134/S1995425521060081

2020

Liyuan Yang, Wei Zhang, Mingyi Ren, Feifei Cao, Fengfeng Chen, Yutao Zhang, Lihai Shang. **Mercury distribution in a typical shallow lake in northern China and its reemission from sediment**. Ecotoxicology and Environmental Safety, 2020, 192, 110316. https://doi.org/10.1016/j.ecoenv.2020.110316

Iuliia Aleksina, Viktor Komov. **Factors affecting the mercury concentration in the hair of young residents of the Vologda region, Russia**. Heliyon, 2020, 6(8). https://doi.org/10.1016/j.heliyon.2020.e04580

Udodenko, Y.G., Prokin, A.A., Seleznev, D.G. et al. **Mercury Content in Water Beetles (Coleoptera: Dytiscidae, Hydrophilidae) of Different Size Classes**. Inland Water Biol, 2020 13, 684–690. https://doi.org/10.1134/S1995082920040124

2019

N.A. Panichev, S.E. Panicheva. **Concentration of Total Mercury in Convenience Fish Products and Cooked Fish**. South African journal of chemistry, 2019, 72:150-153. https://doi.org/10.17159/0379-4350/2019/v72a19

Date SS, Parks JM, Rush KW, Wall JD, Ragsdale SW, Johs A. **Kinetics of enzymatic mercury methylation at nanomolar concentrations catalyzed by HgcAB**. Appl Environ Microbiol 2019, 85:e00438-19. https://doi.org/10.1128/AEM.00438-19

Zhao, L., Li, Y., Zhang, L., Zheng, J., Pierce, E. M., & Gu, B. **Mercury adsorption on minerals and its effect on microbial methylation**. ACS Earth and Space Chemistry, 2019, 3(7), 1338-1345. https://doi.org/10.1021/acsearthspacechem.9b00039

V.A. Gremyachikh, R.A. Lozhkina, V.T. Komov. **Spatial-temporal variability of mercury content in the river perch Perca fluviatilis Linnaeus, 1758 (Perciformes: Percidae) of the Rybinsk Reservoir at the turn of the XX–XXI centuries**. Ecosystem Transformations, 2019, 2(2), 34–44. https://doi.org/10.23859/estr-180816

Dickson, J.O., Mayes, M.A., Brooks, S.C. et al. **Source relationships between streambank soils and streambed sediments in a mercury-contaminated stream**. J Soils Sediments, 2019, 19, 2007–2019. https://doi.org/10.1007/s11368-018-2183-0

Carlos Alberto da Silva, Silvia de Oliveira Santos, Carlos Alexandre Borges Garcia, Gabriela Cugler de Pontes & Julio Cesar Wasserman. **Metals and arsenic in marine fish commercialized in the NE Brazil: Risk to human health**. Human and Ecological Risk Assessment, 2019. https://doi.org/10.1080/10807039.2018.1529552

2018

Braaten, H.F.V., de Wit, H.A., Larssen, T., Poste, A.E. **Mercury in fish from Norwegian lakes: The complex influence of aqueous organic carbon**. Science Total Environ., 2018, 627, 341–348. https://doi.org/10.1016/j.scitotenv.2018.01.252

Ana Paula de Castro Rodrigues, Rodrigo Guerra Carvalheira, Vanessa Gomes, Ana Rosa Linde Arias, Nádia Regina Pereira Almosny, Zuleica Carmen Castilhos, Edison Dausacker Bidone. **Acetylcholinesterase Activity in Fish Exposed to Mercury in Guanabara Bay, RJ, Brazil**. Environmental Pollution and Protection, 2018, 3(4), 91-99. https://doi.org/10.22606/epp.2018.34001

Yuber Palacios-Torres, Karina Caballero-Gallardo, Jesus Olivero-Verbel. **Mercury pollution by gold mining in a global biodiversity hotspot, the Choco biogeographic region, Colombia**. Chemosphere, 2018, 193, 2018, 421-430. https://doi.org/10.1016/j.chemosphere.2017.10.160

Yury G. Udodenko, Viktor T. Komov, Viktor V. Zakonnov. **Total mercury in surficial bottom sediments of Volga River's reservoirs in Central Russia**. Environmental Earth Sciences. 2018, 77:692. https://doi.org/10.1007/s12665-018-7876-6

A.V. Korobeinyk, V.R. Yapyiev, S. Azat, V.J. Inglezakis. **Assessment of total mercury content in water of the Balkyldak Lake-reservoir, Pavlodar, Kazakhstan**. IOP Conf. Series: Earth and Environmental Science, 2018, 167, 012006. https://doi.org/10.1088/1755-1315/167/1/012006

Buyun Du, Xinbin Feng, Ping Li, Runsheng Yin, Ben Yu, Jeroen E. Sonke, Benjamin Guinot, Christopher W. N. Anderson, and Laurence Maurice. **Use of Mercury Isotopes to Quantify Mercury Exposure Sources in Inland Populations, China**. Environ. Sci. Technol., 2018, 52(9), 5407–5416. https://doi.org/10.1021/acs.est.7b05638

2017

Sarah E. Rothenberg, Runsheng Yin, James P. Hurley, David P. Krabbenhoft, Yuyun Ismawati, Chuan Hong, and Alexis Donohue. **Stable Mercury Isotopes in Polished Rice (Oryza sativa L.) and Hair from Rice Consumers**. Environ. Sci. Technol. 2017, 51(11), 6480–6488. https://doi.org/10.1021/acs.est.7b01039

Panichev N.A., Panicheva S.E. **Concentration of Total Mercury in Convenience Fish Products and Cooked Fish.** Oceanography & Fisheries Open Access Journal, 2017, 3(1), 29-31. https://doi.org/10.19080/OFOAJ.2017.03.555604

2016

Avagyan A., Runkle, B. R. K., Hennings N., Haupt H., Virtanen T., Kutzbach L. **Dissolved organic matter dynamics during the spring snowmelt at a boreal river valley mire complex in Northwest Russia**. Hydrological Processes. 2016, 30(11), 1727–1741. https://doi.org/10.1002/hyp.10710

N.A. Panichev, S.E. Panicheva. **Influence of Different Cooking Procedure on the Hg Concentration in Fish**. J Fisheriessciences.com, 2016, 10(1), 63-69.

Komov, V.T.; Javzan, Ch.; and Brumbaugh, W.G. **An Ecotoxicological Survey of Tributaries of the Selenge River, Mongolia, August 2010**. Exploration into the Biological Resources of Mongolia, 2016. http://digitalcommons.unl.edu/biolmongol/175

Osipova, N. A., Stepanova, C. D., Yankovich, E. P., & Yankovich, K. S. **Estimations of hazardous heavy metals and mercury content in a perch of the Ob river basin (Russia)**. International Multidisciplinary Scientific GeoConference: SGEM, 2016, 2, 333-339. https://doi.org/10.1088/1755-1315/27/1/012

2015

J. Burger, A.H. Stern, and Michael Gochfeld. **Mercury in Commercial Fish: Optimizing Individual Choices to Reduce Risk**. Environmental Health Perspectives, 2015, 113(3), 266-71. https://doi.org/10.1289/ehp.7315

Bourdineaud, JP., Durrieu, G., Sarrazin, S.L.F. et al. **Mercurial exposure of residents of Santarém and Oriximiná cities (Pará, Brazil) through fish consumption**. Environ Sci Pollut Res 2015, 22, 12150–12161. https://doi.org/10.1007/s11356-015-4502-y

Ferreira M. S., A. N. MarquesJr., Ribeiro R. O. R., Conte C. A. Jr., Carneiro C. S., Santelli R. E., Freire A. S., São Clemente S. C., Mársico E. T. **Total mercury in carnivorous fish from Brazilian Southeast**, Bulletin of Environmental Contamination and Toxicology, 2015, 95(1), 18–24. https://doi.org/10.1007/s00128-015-1470-3

Clara E. Moreno, Eirik Fjeld, Min K. Deshar, Espen Lydersen. **Seasonal Variation of Mercury and δ15Nin Fish From Lake Heddalsvatn, Southern Norway**. Journal of Limnology, 2015, 74(1). https://doi.org/10.4081/jlimnol.2014.918

N.A. Panichev, S.E. Panicheva. **Determination of total mercury in fish and sea products by direct thermal decomposition atomic absorption spectrometry**. Food Chemistry, 2015, 166, 432-441. https://doi.org/10.1016/j.foodchem.2014.06.032

Mathews, T.J., Looney, B.B., Bryan, A.L., Smith, J.G., Miller, C.L., Southworth, G.R., & Peterson, M.J. **The effects of a stannous chloride-based water treatment system in a mercury contaminated stream**. Chemosphere, 2015, 138, 190–196. https://doi.org/10.1016/j.chemosphere.2015.05.083

Moreno C.E., Fjeld E., Deshar M.K., Lydersen E. **Seasonal variation of mercury and δ^{15}N in fish from Lake Heddalsvatn, Southern Norway**. J. Limnology, 2015, 74(1) 21–30. https://doi.org/10.4081/jlimnol.2014.918

Seixas T.G., Moreira I., Kehrig H.A. **Mercury and selenium in seston, marine plankton and fish (*Sardinella brasiliensis*) as a tool for understanding a tropical food web.** Marine Pollution Bulletin, 2015, 101(1), 366–369. http://doi.org/10.1016/j.marpolbul.2015.10.016

2014

Laperche V, Hellal J, Maury-Brachet R, et al. **Regional distribution of mercury in sediments of the main rivers of French Guiana (Amazonian basin)**. Springerplus. 2014; 3(322). https://doi.org/10.1186/2193-1801-3-322

Braaten H. F. V., Fjeld E., Rognerud S., Lund E., Larssen T. **Seasonal and year-to-year variation of mercury concentration in perch (Perca fluviatilis) in boreal lakes**. Environmental Toxicology and Chemistry, 2014, 33(12), 2661–2670. https://doi.org/10.1002/etc.2733

Correia J., Cesar R., Marsico E., Diniz G. T.N., Zorro M.C., Castilhos Z. **Mercury contamination in alligators (Melanosuchus niger) from Mamirauá Reservoir (Brazilian Amazon) and human health risk assessment**. Environ. Sci. and Pollution Research, 2014, 21(23), 13522–13527. https://doi.org/10.1007/s11356-014-3282-0

Lindholm M., de Wit H.A., Eriksen T.E., Braaten H.F.V. **The influence of littoral on mercury bioaccumulation in a humic lake**. Water, Air, & Soil Pollution, 2014, 225(10), 1–11. https://doi.org/10.1007/s11270-014-2141-4

Parsons M. J., Long D. T., Giesy J. P., Kannan K. **Inferring sources for mercury to inland lakes using sediment chronologies of polycyclic aromatic hydrocarbons**. Environmental Science: Processes & Impacts, 2014, 16(9), 2108–2116. https://doi.org/10.1039/c4em00127c

Zheng, J., Pelchat, P., Vaive, J., Bass, D., Ke, F. **Total mercury in snow and ice samples from Canadian High Arctic ice caps and glaciers: A practical procedure and method for total Hg quantification at low pgg−1 level**. Sci. Total Environment, 2014, 468-469, 487–494. https://doi.org/10.1016/j.scitotenv.2013.08.078

2013

Mathews T. J., Southworth G., Peterson M. J., Roy W. K., Ketelle R. H., Valentine C., Gregory S. **Decreasing aqueous mercury concentrations to meet the water quality criterion in fish: examining the water–fish relationship in two point-source contaminated streams**. Sci. Total Environ, 2013, 443, 836–843. https://doi.org/10.1016/j.scitotenv.2012.11.042

2012

Zhao L., Yang F., Yan X., Huo Z., Zhang G. **Heavy metal concentrations in surface sediments and Manila clams (Ruditapes philippinarum) from the Dalian coast, China after the Dalian port oil spil**l. Biological Trace Element Research, 2012, 149(2), 241–247. https://doi.org/10.1007/s12011-012-9412-y

2011

N. V. Lobus, V. T. Komov, Nguyen Thi Hai Thanh. **Mercury Concentration in Ecosystem Components in Water Bodies and Streams in Khanh Hoa Province (Central Vietnam)**. Water Resources, 2011, 38(6), 799–805. https://doi.org/10.1134/S0097807811060091

Ana Paula de Castro Rodrigues, Luiz Cesar Cavalcanti Pereira da Silva, Patrıcia Oliveira Maciel, Nadia Regina Pereira Almosny, Jose Vanderli Andreata, Edison Dausacker Bidone, Zuleica Carmen Castilhos. **Relationship between Mercury Concentrations in the Blood with that in the Muscle of Four Estuarine Tropical Fish Species, Rio de Janeiro State, Brazil**. Bull Environ Contam Toxicol, 2011, 86:357–362. https://doi.org/10.1007/s00128-011-0228-9

Zhang Y., Chen X., Yang Y., Wang D., Liu X. **Effect of dissolved organic matter on mercury release from water body**. J. Environmental Sciences, 2011, 23(6), 912–917. https://doi.org/10.1016/S1001-0742(10)60497-4

Bogans E., Gavare Z., Svagere A., Poikane R., Skudra J. **Mercury pollution exploration in Latvia with high-sensitivity Zeeman atomic absorption spectrometry**. Scientific Journal of Riga Technical University. Environ. Climate Technol., 2011, 7, 39–45. https://doi.org/10.2478/v10145-011-0026-y

2010

A.P.C. Rodrigues, P.O. Maciel, L.C.C. Pereira da Silva, C. Albuquerque, A. F. Inácio, M. Freire, A.R. Linde, N.R.P. Almosny, J.V. Andreata, E.D. Bidone, Z.C. Castilhos. **Biomarkers for Mercury Exposure in Tropical Estuarine Fish.** J. Braz. Soc. Ecotoxicol., 5(1), 2010, 9-18. https://doi.org/10.5132/jbse.2010.01.003

Zhang H., Feng X., Larssen T., Guangle Qiu, Vogt R. D. **In Inland China, rice, rather than fish, is the major pathway for methylmercury exposure**. Environmental Health Perspectives, 2010, 118(9), 1183–1188. https://doi.org/10.1289/ehp.1001915

Nowak B., Fulara I. **Concentration of selected priority substances in Klodnica River catchment**. Ecological Chemistry and Engineering A., 2010, 17(11), 1435–1450. http://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-article-BPG8-0060-0005

Zhang, H., Feng, X., Larssen, T., Qiu, G., & Vogt, R. D. **In inland China, rice, rather than fish, is the major pathway for methylmercury exposure**. Environmental health perspectives, 2010, 118(9), 1183-1188. https://doi.org/10.1289/ehp.1001915

2008

Guidance for identifying populations at risk from mercury exposure. WHO/UNEP DTIE Chemicals Branch/ 2008. https://www.who.int/foodsafety/publications/risk-mercury-exposure/en/

R.J. Medeiros1 E.T. Mársico, S.C. São Clemente, M.S. Ferreira. **Distribution of metal mercury in tuna (Thunnus albacares) and weaker fish (Cynoscion microlepidotus) captured in Rio de Janeiro coast, Brazil**. Arquivo Brasileiro de Medicina Veterinária e Zootecnia, 2008, 60(3), 656-662. https://doi.org/10.1590/S0102-09352008000300020

Polyakov D. M., Aksentov K. I., Ivanov M. V. **Mercury in the bottom sediments of the marginal filter of the Razdol'naya River, Amur Bay**. Geochemistry International, 2008, 46(6), 614–621. https://doi.org/10.1134/S0016702908060074

2007

Burger J., Gochfeld M., Jeitner C., Burke S., Stamm T. **Metal levels in flathead sole (Hippoglossoides elassodon) and great sculpin (Myoxocephalus polyacanthocephalus) from Adak Island, Alaska: Potential risk to predators and fishermen**. Environmental Research, 2007, 103(1), 62–69. https://doi.org/10.1016/j.envres.2006.02.005

Burger J., Gochfeld M., Shukla T., Jeitner C., Burke S., Donio M., Shukla S., Snigaroff R., Snigaroff D., Stamm T., Volz C. **Heavy metals in Pacific cod (Gadus macrocephalus) from the Aleutians: location,**

age, size, and risk. J. Toxicology and Environmental Health, 2007, 70(22), 1897–1911. https://doi.org/10.1080/15287390701551159

Muresan B., Cossa D., Richard S., Burban B. **Mercury speciation and exchanges at the air–water interface of a tropical artificial reservoir, French Guiana**. Sci. Total Environment, 2007, 385(1–3), 132–145. https://doi.org/10.1016/j.scitotenv.2007.06.013

Parsons M. P., Long D. T., Yohn S. S., Giesy J. P. **Spatial and temporal trends of mercury loadings to Michigan Inland Lakes**. Environmental Science & Technology, 2007, 41(16), 5634–5640. https://doi.org/10.1021/es0701356

2006

J. Burger, M. Gochfeld. **Mercury in fish available in supermarkets in Illinois: Are there regional differences**. Sci. Total Environment, 2006, 367(2–3), 1010-1016. https://doi.org/10.1016/j.scitotenv.2006.04.018

2005

Marcello M. Veiga, Dario Bermudez, Heloisa Pacheco-Ferreira, Luiz Roberto Martins Pedroso, Aaron J. Gunson, Gilberto Berrios, Ligia Vos, Pablo Huidobro, Monika Roeser. **Mercury Pollution from Artisanal Gold Mining in Block B, El Callao, Bolívar State, Venezuela**. In: Dynamics of mercury pollution on regional and global scales: Atmospheric processes and human exposures around the world. N. Pirrone &; K. Mahaffey (Eds),2005, 421-450. ISBN: 0-387-24493-X. https://doi.org/10.1007/b105709

Burger J., Campbell K. R., Campbell T. S., Shukla T., Dixon C., Gochfeld M. **Use of central stonerollers (Cyprinidae: Campostoma anomalum) from Tennessee as a bioindicator of metal contamination**. Environ. Monitor. and Assess. 2005, V. 110, 1–3, 171–184. https://doi.org/10.1007/s10661-005-6689-8

Burger J., Gochfeld M. **Heavy metals in commercial fish in New Jersey**. Environ. Res. 2005, V. 99, 3, 403–412. https://doi.org/10.1016/j.envres.2005.02.001

Burger J., Stern A. H., Gochfeld M. **Mercury in commercial fish: optimizing individual choices to reduce risk**. Environ. Health Perspectives, 2005. V. 113, 3. 266–271. https://doi.org/10.1289/ehp.7315

2004

Joanna Burger and Michael Gochfeld**. Mercury in canned tuna: white versus light and temporal variation**. Environmental Research 96 (2004) 239–249. https://doi.org/10.1016/j.envres.2003.12.001

2003

Burger J., Dixon C., Boring S. C., Gochfeld M. **Effect of deep-frying fish on risk from mercury**. Journal of Toxicology and Environmental Health, Part A. 2003, 66, № 11, 817–828. https://doi.org/10.1080/15287390306382

Geology & Mining

2026

Pan, J., Li, Z., Yang, X., Ma, H., Ma, X., & Shangguan, Y. **Paleoenvironmental Controls on Organic Matter Enrichment in Marine–Continental Transitional Shales of the Upper Carboniferous Yanghugou Formation, Western Ordos Basin**. Journal of Marine Science and Engineering, 2026, 14(17), 1562. https://doi:10.3390/jmse14171562

Song, H., Roghi, G., & Gianolla, P. **" Event1" of the Carnian Pluvial Episode (Late Triassic)**. In: Late Triassic Konservat-Lagerstätten within the Carnian Pluvial Episode: 150 Years of Scientific Excavations in Austria, 353, 2026. https://doi:10.1007/978-3-032-19777-1_16

Della Sala, S., Papadimitriou, V., Polymenakou, P., Kutterolf, S., Frieling, J., Pyle, D. M., ... & Papanikolaou, D. **A prolonged hydrothermal past at Santorini Caldera revealed by sedimentary trace metal and microbial signatures**. Nature Communications, 2026, 17, 9398. https://doi:10.1038/s41467-026-75931-8

Paine, A. R., Frieling, J., Wagner, B., Francke, A., Lacey, J. H., Mather, T. A., ... & Pyle, D. M. **Terrestrial regulation of lacustrine Hg deposition during glacial-interglacial cycles**. Paleoceanography and Paleoclimatology,2026, 41(4). https://doi:10.1029/2025PA005245

Li, C., Su, H., Liu, B. et al. **H_2, CO_2, ^{222}Rn, and Hg degassing from soil gas after a strong earthquake with implications for concealed fault detection in the northeastern Tibetan Plateau**. Sci Rep., 2026. https://doi:10.1038/s41598-026-68420-x

Dal Corso, J., Lukeneder, A., Alverà, G., Haserbek, T., Caggiati, M., Sachsenhofer, R. F., ... & Gianolla, P. **C-Isotope Perturbation and Hg Deposition in the Reifling Basin at "Event1" of the Carnian Pluvial Episode (Late Triassic)**. In Late Triassic Konservat-Lagerstätten within the Carnian Pluvial Episode: 150 Years of Scientific Excavations in Austria (pp. 353-381), 2026. Cham: Springer Nature Switzerland. https://doi:10.1007/978-3-032-19777-1_16

Sun, X., Jia, R., Yin, R., & Yang, X. **Anomalous mercury isotopic composition highlights the essential role of terrestrial erosion in forming cold seeps in the continental margin of the South China Sea**. Journal of Asian Earth Sciences, 2026, 107253. https://doi:10.1016/j.jseaes.2026.107253

Cao, Y., Chu, D., Yin, R., Song, H., Dal Corso, J., Ovtcharova, M., ... & Tong, J. **A~ 0.5 Myr perturbation of carbon and mercury cycles during the Middle Triassic biotic radiation**. Science Advances, 2026, 12(25), eaee2291. https://doi:10.1126/sciadv.aee2291

Fan, Y., Liu, D., Li, S., Li, X., Liu, S., Shen, D. and Yin, Q.-Z. **The effects of shock process and terrestrial weathering on mercury isotopes in meteorites.** Meteorit Planet Sci. 2029. https://doi:10.1111/maps.70175

Martinez, M. O., Gion, A., Nazarov, K., Stefánsson, A., Galeczka, I., Della Sala, S., ... & Blundy, J. **Trace Elements in Geothermal Fluids of Montserrat, Eastern Caribbean**. In 87th EAGE Annual Conference & Exhibition, 2026, 1, 1-5. European Association of Geoscientists & Engineers, 2026.

Sun, S., Chen, A., Ogg, J. G., Azmy, K., Li, Q., Hou, M., ... & Fielding, C. R. **An abrupt drop in weathering flux amplified the Artinskian Warming Event during the Late Paleozoic Ice Age**. Communications Earth & Environment, 2026, 7, 257. https://doi:10.1038/s43247-026-03288-3

Paine, A. R., Frieling, J., Wagner, B.,Francke, A., Lacey, J. H., Mather, T. A., et al. **Terrestrial regulation of lacustrine Hg deposition during glacial-interglacial cycles**. Paleoceanography and Paleoclimatology, 2026, 41. https://doi:10.1029/2025PA005245

Luo, A., Chang, R., Cawood, P. A., Zhao, G., Lehmann, B., & Yin, R. **Partial melting of basaltic crust in the generation of Early Archean intrusive rocks: Insights from the near-zero Δ^{199}Hg signature in Archean granitoids**. Geology, 2026. https://doi:10.1130/G53894.1

Wei, H., Zhang, X., & Qiu, Z. **Pulsed volcanism of the Emeishan large igneous province caused the Guadalupian (Middle Permian) mass extinction**. Geological Society of America Bulletin, 2026. https://doi:10.1130/B38771.1

Zhang, J., Wang, R., Yin, R., Tian, Z., & Hou, Z. Q. **Mercury systematics in the arc lower crust of subduction zones and implications on crust-mantle interactions**. Geological Society of America Bulletin, 2026, 138(1-2), 368-376. https://doi:10.1130/B38170.1

2025

N.R. Mashyanov, A.S. Rukhlov, S.E. Sholupov, V.V. Ryzhov, A.D. Shashko, E. Perkins, and W. Barnes. **New methodology for air mercury surveys over mineralization**. Explore, 2025, 208. https://doi:10.70499/ZXZS843

V.I. Malov, V.D. Strakhovenko, M.A. Gustaitis, E.A. Ovdina, G.I. Malov. **Assessment of mercury flux to bottom sediments in high-altitude small lakes of the Altai mountains (Ukok Plateau, Altai Republic)**. Russian Geology and Geophysics, 2025. https://doi:10.2113/RGG20254918

Wang, Y., Lu, J., Yang, M., Vervoort, P., Zhou, K., Yager, J. A., ... & Hilton, J. **Two episodes of Gzhelian (latest Carboniferous) volcanism immediately predate Asselian (early Permian) cooling and glaciation**. Global and Planetary Change, 2025, 105129. https://doi:10.1016/j.gloplacha.2025.105129

Yang, C., Guo, H., Huang, H., Hou, M., Luo, A., & Yin, R. **Large volcanism, enhanced oceanic productivity, and efficient organic matter burial during Mesoproterozoic oxygenation events: Insights from mercury and carbon isotopes in the Jixian Group, North China Craton**. Chemical Geology, 2025, 695, 123052. https://doi:10.1016/j.chemgeo.2025.123052

Huang, H., Deng, C., Grasby, S. E., Cawood, P. A., Hou, M., Yang, C., ... & Yin, R. **Mercury evidence of Emeishan volcanism driving the mid-Capitanian (Middle Permian) extinction**. Geological Society of America Bulletin, 2025, 137(3-4), 1177-1184. https://doi:10.1130/B37796.1

Sun, Y., Li, P., Zhang, Y., Zhao, X., Li, Y., Guo, Z., ... & Xie, X. **Gaseous Elemental Mercury Emissions in the Yangbajing Geothermal Field, Tibetan Plateau**. Applied Geochemistry, 2025, 193, 106540. https://doi:10.1016/j.apgeochem.2025.106540

Boulliung, J., Wood, B. J., & Mather, T. A. **Volatility of mercury and related volatile metals at magmatic temperatures**. Chemical Geology, 2025, 695, 123018. https://doi:10.1016/j.chemgeo.2025.123018

Zhang, J., Wang, R., Yin, R., Tian, Z., & Hou, Z. Q. **Mercury systematics in the arc lower crust of subduction zones and implications on crust-mantle interactions.** Geological Society of America Bulletin. 2025. https://doi:10.1130/B38170.1

Wang, H., Shu, Z., He, T., He, J., & Zhou, Y. **Influence of Volcanic Ash on Organic Matter Enrichment in the Late Permian Wuchiaping Formation, Eastern Sichuan Basin: Multiproxy Evidence and Implications for Shale Gas Exploration**. ACS Omega, 2025. https://doi:10.1021/acsomega.5c04502

Indraswari, A. O., Frieling, J., Idiz, E., Mather, T. A., Jenkyns, H. C., Robinson, S. A., & Dickson, A. J. **Limited mercury (Hg) partitioning into bitumen and efficient gaseous Hg reabsorption in early thermal maturation of organic-rich mudrocks**. Geochimica et Cosmochimica Acta, 2025, 403. https://doi:10.1016/j.gca.2025.07.001

Haserbek, T., Tian, L., Huang, J., Shu, W., Liu, Y., Hua, X., ... & Dal Corso, J. **High latitude terrestrial carbon isotope and mercury perturbations across the Late Triassic Carnian Pluvial Episode in**

Northwestern China. Scientific Reports, 2025, 15(1), 16222. https://doi:10.1038/s41598-025-98455-5

Yang, J. H., Wu, J. H., Zhou, M. F., Hu, R. Z., Zhao, J. H., Williams-Jones, A. E., ... & Yin, R. S. **Mantle contributions to global tungsten recycling and mineralization**. Communications Earth & Environment, 2025, 6(1), 1-13. https://doi:10.1038/s43247-025-02471-2

Xiao, T., Sun, D., Xu, C., Tian, Z., Luo, A., Deng, C., & Yin, R. **A Late Paleozoic hydrothermal gold mineralization event in the northern margin of the North China Craton: Evidence of in situ apatite U-Pb dating and Hg isotope tracing of the giant Hadamengou gold deposit**. Geochemistry, Geophysics, Geosystems, 2025, 26(5), e2024GC012053. https://doi:10.1029/2024GC012053

Zhang, K., He, H., Li, Y., Lu, C., Gao, Z., Liu, Z., & Chen, Z. **Spatial distribution of mercury in geothermal springs and its correlation with tectonic setting in the Bayan Har block of Tibetan Plateau, China**. Geothermics, 2025, 130, 103351. https://doi:10.1016/j.geothermics.2025.103351

Paine, A. R., Frieling, J., Shanahan, T. M., Mather, T. A., McKay, N., Robinson, S. A., Pyle, D. M., Fendley, I. M., Kiely, R., and Gosling, W. D. **Evidence for millennial-scale interactions between Hg cycling and hydroclimate from Lake Bosumtwi, Ghana**. Clim. Past, 2025, 21, 817–839. https://doi:10.5194/cp-21-817-2025

Ge, X., Shen, B., Chen, D., Liu, Y., Jiang, Z., Liu, M., & Ge, X. **Marine redox evolution and organic matter accumulation in the end Guadalupian in NE Sichuan, South China**. Palaeogeography, Palaeoclimatology, Palaeoecology, 2025, 112901. https://doi:10.1016/j.palaeo.2025.112901

Zhang, P., Yang, M., Lu, J., Jiang, Z., Wang, L., Zhu, Y., ... & Hilton, J. **Terrestrial mercury anomalies across the Permian-Triassic transition in North China linked to volcanism**. Chemical Geology, 2025,673, 122555. https://doi:10.1016/j.chemgeo.2024.122555

Zhang, L., Guo, L., Shi, D., & Bao, C. **Mercury isotope signatures in soils reveal degassing from fault zones on the eastern margin of the Tibetan Plateau**. Applied Geochemistry, 2025, 106341. https://doi:10.1016/j.apgeochem.2025.106341

Chu, D., Song, H., Dal Corso, J., Winguth, A. M. E., Gautam, M. D., Wignall, P. B., ... & Tong, J. **Diachronous end-Permian terrestrial crises in North and South China**. Geology, 2025, 53(1), 55-60. https://doi:10.1130/G52655.1

Cao, F., Sun, R., Schneider, L., Zhang, Y., Li, S., Yan, R., ... & Liu, Y. **A digestion-purging-trapping method for precise stable mercury isotope measurements of natural carbonates**. Journal of Analytical Atomic Spectrometry, 2025, 40(5), 1373-1382. https://doi:10.1039/D5JA00063G

Mazzini, A., Zaputlyaeva, A., Blumenberg, M., Scheeder, G., Nuzzo, M., Husein, A., & Etiope, G. **Extensive oil, ethane and propane discharge at the mega seepage system of Lusi, Indonesia**. Communications Earth & Environment, 6(1), 854. https://doi:10.1038/s43247-025-02871-4

2024

Fendley, I. M., Frieling, J., Mather, T. A., Ruhl, M., Hesselbo, S. P., & Jenkyns, H. C. **Early Jurassic large igneous province carbon emissions constrained by sedimentary mercury.** Nature Geoscience, 2024, 17(3), 241-248. https://doi:10.1038/s41561-024-01378-5

Indraswari, A. O., Frieling, J., Mather, T. A., Dickson, A. J., Jenkyns, H. C., & Idiz, E. **Investigating the behavior of sedimentary mercury (Hg) during burial-related thermal maturation**. Geochemistry, Geophysics, Geosystems, 25, e2024GC011555. https://doi:10.1029/2024GC011555

Zhang, P., Yang, M., Lu, J., Jiang, Z., Wang, L., Zhu, Y., ... & Hilton, J. **Terrestrial mercury anomalies across the Permian-Triassic transition in North China linked to volcanism**. Chemical Geology, 2024, 122555. https://doi:10.1016/j.chemgeo.2024.122555

Frieling, J., Svensen, H. H., & Mather, T. A. **Mercury efficiently volatilized but not completely removed from sediments around igneous intrusions**. Geology, 2024. https://doi:10.1130/G52622.1

Frieling, J., Fendley, I. M., Nawaz, M.A., & Mather, T. A. **Assessment of Hg speciation changes in the sedimentary rock record from thermal desorption characteristics**. Geochemistry, Geophysics, Geosystems, 2024, 25, e2024GC011502. https://doi:10.1029/2024GC011502

Xu, B., Yin, R. S., Chiaradia, M., Miao, Z., Griffin, W. L., Hou, Z. Q., ... & O'Reilly, S. Y. **Mercury isotope evidence for the importance of recycled fluids in collisional ore systems**. Science Advances, 2024, 10(34), eadp7383. https://doi:10.1126/sciadv.adp7383

Paine, A., Frieling, J., Shanahan, T., Mather, T., McKay, N., Robinson, S., ... & Gosling, W. **New evidence for millennial-scale interactions between Hg cycling and hydroclimate from Lake Bosumtwi, Ghana**. EGUsphere, 2024, 1-31. https://doi:10.5194/egusphere-2024-2123

Yu, W., Liu, Z., Zhang, B., Chu, D., Wei, W., Xiao, L., ... & Konhauser, K. **A distinct manganese deposit on a Middle Permian carbonate platform in South China**. Chemical Geology, 2024, 122227. https://doi.org/10.1016/j.chemgeo.2024.12222

Walker-Trivett, C.A., Kender, S., Bogus, K.A. et al. **Oceanic Anoxic Event 2 triggered by Kerguelen volcanism**. Nat Commun, 2024, 15, 5124. https://doi.org/10.1038/s41467-024-49032-3

Indraswari, A. O., Frieling, J., Mather, T. A., Dickson, A. J., Jenkyns, H. C., & Idiz, E. **Investigating the behavior of sedimentary mercury (Hg) during burial-related thermal maturation**. Geochemistry, Geophysics, Geosystems, 25, e2024GC011555. https://doi.org/10.1029/2024GC011555

Rodríguez, R., Garcia-Gonzalez, H., Hernández, Z., & Sanmiquel, L. **Tackling Arsenic and Mercury Contamination: Implicat, ions for Sustainable Mining and Occupational Health Risks**. Sustainability, 2024, 16(10), 4027. https://doi.org/10.3390/su16104027

Barquero, J.I., Lorenzo, S., Rivera, S., González-Valoys, A.C., García-Ordiales, E., Esbrí, J. M., Higueras, P. **Biogeochemical prospecting of metallic critical raw materials: soil to plant transfer in SW Ciudad Real Province, Spain**. Environmental Science and Pollution Research, 2024, 31(20), 29536-29548. https://doi.org/10.1007/s11356-024-33097-0

Pan, F., Huang, J.H., & Feng, X. **Sources, fates, and geochemical cycling of mercury in geothermal fields: Insights from mercury isotopes**. Geophysical Research Letters, 2024, 51(9), e2023GL107384. https://doi.org/10.1029/2023GL107384

Bos, R., Zheng, W., Lindström, S., Sanei, H., Waajen, I., Fendley, I. M., ... & van de Schootbrugge, B. **Climate-forced Hg-remobilization associated with fern mutagenesis in the aftermath of the end-Triassic extinction**. Nature Communications, 2024, 15(1), 3596. https://doi.org/10.1038/s41467-024-47922-0

Frieling, J., Fendley, I.M., Nawaz, M.A., & Mather, T.A. **Assessment of Hg speciation changes in the sedimentary rock record from thermal desorption characteristics**. Geochemistry, Geophysics, Geosystems, 2024, 25, e2024GC011502. https://doi.org/10.1029/2024GC011502

Barquero, J.I., Lorenzo, S., Rivera, S., González-Valoys, A.C., García-Ordiales, E., Esbrí, J.M., & Higueras, P. **Biogeochemical prospecting of metallic critical raw materials: soil to plant transfer in SW Ciudad Real Province, Spain**. Environmental Science and Pollution Research, 2024, 1-13. https://doi.org/10.1007/s11356-024-33097-0

Yang, B., Zhang, X., Yi, J., Shi, W., Sun, S., Sun, H., & Su, G. **Carbon-cycle perturbations and intensified continental chemical weathering linked to volcanism during the Jenkyns Event in the Ordos Basin**. Geological Journal, 2024. https://doi.org/10.1002/gj.4928

Zhang, Q., Fu, X., Wang, J., Mansour, A., Wei, H., Zhang, T., & Wang, M. **Orbitally-paced climate change during the Carnian Pluvial Episode**. Earth and Planetary Science Letters, 2024, 626, 118546. https://doi.org/10.1016/j.epsl.2023.118546

Gao, L., Sun, D., Tian, Z., Luo, A., Lehmann, B., & Yin, R. **Positive Δ199Hg anomalies in Mesozoic porphyry Mo deposits of Northeastern China and their implications to the metallogeny of arc-related hydrothermal systems at convergent margins**. Chemical Geology, 2024, 645, 121880.

Fendley, I.M., Frieling, J., Mather, T.A., Ruhl, M., Hesselbo, S.P., & Jenkyns, H.C. **Early Jurassic large igneous province carbon emissions constrained by sedimentary mercury**. Nature Geoscience, 2024, 1-8. https://doi.org/10.1038/s41561-024-01378-5

Zhang, Q., Fu, X., Wang, J., Mansour, A., Wei, H., Zhang, T., & Wang, M. **Orbitally-paced climate change during the Carnian Pluvial Episode**. Earth and Planetary Science Letters, 2024, 626, 118546. https://doi.org/10.1016/j.epsl.2023.118546

Paine, A. R., Fendley, I. M., Frieling, J., Mather, T. A., Lacey, J. H., Wagner, B., ... & Panagiotopoulos, K. **Mercury records covering the past 90 000 years from lakes Prespa and Ohrid, SE Europe**. Biogeosciences, 2024, 21(2), 531-556. https://doi.org/10.5194/bg-21-531-2024

2023

Svensen, H.H., Jones, M.T., Percival, L.M., Grasby, S.E., & Mather, T.A. **Release of mercury during contact metamorphism of shale: Implications for understanding the impacts of large igneous province volcanism**. Earth and Planetary Science Letters, 2023, 619, 118306. https://doi.org/10.1016/j.epsl.2023.118306

Liu, Z., Li, Y., Chen, Z., Zhao, Z., Huangfu, R., Zhao, Y., ... & Lu, C. **Environmental impacts of ^{222}Rn, Hg and CO_2 emissions from the fault zones in the western margin of the Ordos block, China**. Environmental Geochemistry and Health, 2023, 45(2), 457-472. https://doi.org/10.1007/s10653-022-01350-5

Barago, N., Mastroianni, C., Pavoni, E., Floreani, F., Parisi, F., Lenaz, D., & Covelli, S. **Environmental impact of potentially toxic elements on soils, sediments, waters, and air nearby an abandoned Hg-rich fahlore mine (Mt. Avanza, Carnic Alps, NE Italy)**. Environmental Science and Pollution Research, 2023, 1-22. https://doi.org/10.1016/j.envpol.2022.120921

Aksentov, K.I., Ivanov, M.V., Yaroshchuk, E.I., Charkin, A.N., Sattarova, V.V., Alatortsev, A.V., ... & Startsev, A.V. (2023, November). **The First Data on the Mercury Content and Its Forms in the Ferromanganese and Ferruginous Formations of Chaun Bay**. In: Doklady Earth Sciences, 2023,1-5. Moscow: Pleiades Publishing. https://doi.org/10.1134/S1028334X23602183

Moraes, L.; Bernardi, J.V.E.; de Souza, J.P.R.; Portela, J.F.; et al. **Sediment Mercury, Geomorphology and Land Use in the Middle Araguaia River Floodplain (Savanna Biome, Brazil)**. Soil Systems, 2023, 7(97). https://doi.org/10.3390/soilsystems7040097

Bos, R., Zheng, W., Lindström, S., Sanei, H., Waajen, I., Fendley, I., ... & van de Schootbrugge, B. **Climate-forced Hg-remobilization driving mutagenesis in ferns in the aftermath of the end-Triassic extinction**. Research Square, 2023. https://doi.org/10.21203/rs.3.rs-3437107/v1

Tian, Z., Lehmann, B., Deng, C., Luo, A., Zhang, X., Moynier, F., & Yin, R. **Mercury abundance and isotopic composition in granitic rocks: Implications for Hg cycling in the upper continental crust**. Geochimica et Cosmochimica Acta, 2023. https://doi.org/10.1016/j.gca.2023.09.019

Zhou, Y., Tang, S., Algeo, T. J., Shen, J., & Li, Y. **Mercury isotope variation during organic matter maturation to petroleum**. Chemical Geology, 2023, 618, 121298. https://doi.org/10.1016/j.chemgeo.2022.121298

Paine, A. R., Fendley, I. M., Frieling, J., Mather, T. A., Lacey, J. H., Wagner, B., ... & Panagiotopoulos, K. **Mercury records covering the past 90 kyr from lakes Prespa and Ohrid, SE Europe**. EGUsphere, 2023, 1-37. https://doi.org/10.5194/egusphere-2023-1363

Xiao, T., Sun, D., Lehmann, B., Tian, Z., Gao, L., Zhang, D., ... & Yin, R. **Paleo-Pacific Plate Subduction and Basement Mobilization Triggered Large-Scale Formation of Mesozoic Gold Deposits in the Northern Margin of the North China Craton**. Geochemistry, Geophysics, Geosystems, 2023, 24(7), e2022GC010769. https://doi.org/10.1029/2022GC010769

Fang, C., Zhang, C., Meng, G., Xu, J., Xu, N., Li, H., ... & Liu, B. **Constraints on the Accumulation of Organic Matter in the Upper Permian Dalong Formation from the Lower Yangtze Region, South China**. Acta Geologica Sinica, 2023. https://doi.org/10.1111/1755-6724.15095

Zhao, K., Zhu, G., Zheng, W., Sun, G., Li, T., & Zhang, Z. **Mercury isotopes record development and attenuation of photic zone euxinia during the earliest Cambrian**. Global and Planetary Change, 2023, 104214. https://doi.org/10.1016/j.gloplacha.2023.104214

Wu, Y., Tian, H., Yin, R., Chen, D., Grasby, S. E., Shen, J., ... & Ji, S. **Highly fractionated Hg isotope evidence for dynamic euxinia in shallow waters of the Mesoproterozoic ocean**. Earth and Planetary Science Letters, 2023, 616, 118211. https://doi.org/10.1016/j.epsl.2023.118211

M.-N. Decraene, J. Marin-Carbonne, C. Thomazo, A. Brayard, A.-S. Bouvier, B. Bomou, T. Adatte, N. Olivier. **Pyrite iron isotope compositions track local sedimentation conditions through the Smithian-Spathian transition (Early Triassic, Utah, USA)**. Palaeogeography, Palaeoclimatology, Palaeoecology, 2023, 617, 111507. https://doi.org/10.1016/j.palaeo.2023.111507

Vasilevich, R.; Vasilevich, M.; Lodygin, E.; Abakumov, E. **Geochemical Characteristics of the Vertical Distribution of Heavy Metals in the Hummocky Peatlands of the Cryolithozone**. Int. J. Environ. Res. Public Health, 2023(20), 3847. https://doi.org/10.3390/ijerph20053847

J. Frieling, T.A. Mather, C. März, H.C. Jenkyns, R. Hennekam, G.-J. Reichart, C.P. Slomp, N.A.G.M. van Helmond. **Effects of redox variability and early diagenesis on marine sedimentary Hg records**. Geochimica et Cosmochimica Acta, 2023, 351, 78-95. https://doi.org/10.1016/j.gca.2023.04.015

Yang, C., Xu, H., Yin, R., Wang, L., Wu, C., Grasby, S. E., & Gao, J. **The Zunyi manganese deposit, South China: A consequence of climatic-oceanic changes triggered by the eruption of Emeishan Large Igneous Province?** Ore Geology Reviews, 2023, 105530. https://doi.org/10.1016/j.oregeorev.2023.105530

Vöröš, D., Baizán, P. D., Slavíček, K., Díaz-Somoano, M., & Gerslova, E. **Mercury Occurrence and Speciation in Sediments from Hard Coal Mining in Czechia**. Available at SSRN 4457130. https://doi.org/10.2139/ssrn.4457130

in, X., Yan, J., Ali, M. U., Li, Q., & Li, P. **Mercury Biogeochemical Cycle in Yanwuping Hg Mine and Source Apportionment by Hg Isotopes**. Toxics, 2023, 11(5), 456. https://doi.org/10.3390/toxics11050456

Wang, Y., Lu, J., Yang, M., Yager, J. A., Greene, S. E., Sun, R., ... & Hilton, J. **Volcanism and wildfire associated with deep-time deglaciation during the Artinskian (early Permian)**. Global and Planetary Change, 2023, 104126. https://doi.org/10.1016/j.gloplacha.2023.104126

Hong, X., Yang, K., Liang, H., Wang, X. **Enrichment of Sulfate, Acidity and Mercury in Native outcrop coal, Southwest China**. Environ Sci Pollut Res, 2023 1-14. https://doi.org/10.1007/s11356-023-26791-y

Hua, F., Shao, L., Zhang, T., Bond, D. P., Wang, X., Wang, J., ... & Hilton, J. **An astronomical timescale for the Permian-Triassic mass extinction reveals a two-step, million-year-long terrestrial crisis in**

South China. Earth and Planetary Science Letters, 2023, 605, 118035. https://doi.org/10.1016/j.epsl.2023.118035

Zhang, P., Yang, M., Lu, J., Jiang, Z., Zhou, K., Liu, H., ... & Bond, D. P. **Middle Jurassic terrestrial environmental and floral changes linked to volcanism: Evidence from the Qinghai-Tibet Plateau, China**. Global and Planetary Change, 2023, 104094. https://doi.org/10.1016/j.gloplacha.2023.104094

Jones, M.T., Stokke, E.W., Rooney, A.D., Frieling, J., Pogge von Strandmann, P.A., Wilson, D.J., ... & Schultz, B.P. **Tracing North Atlantic volcanism and seaway connectivity across the Paleocene–Eocene Thermal Maximum (PETM)**. EGUsphere, 2023, 1-53. doi:10.5194/egusphere-2023-36, 2023

Vickers, M.L., Jelby, M.E., Śliwińska, K.K., Percival, L.M., Wang, F., Sanei, H., ... & Galloway, J.M. **Volcanism and carbon cycle perturbations in the High Arctic during the Late Jurassic–Early Cretaceous**. Palaeogeography, Palaeoclimatology, Palaeoecology, 2023, 111412. https://doi.org/10.1016/j.palaeo.2023.111412

Zhang, X., Tian, K., Wang, Y., Hu, W., Liu, B., Yuan, X., ... & Wu, L. **Identification of sources and their potential health risk of potential toxic elements in soils from a mercury-thallium polymetallic mining area in Southwest China: Insight from mercury isotopes and PMF model**. Science of The Total Environment, 2023, 161774. https://doi.org/10.1016/j.scitotenv.2023.161774

Esbrí, J.M., Minang, C.M., Rivera, S., Madrid-Illescas, M., García-Noguero, E., González-Valoys, A., ... & Higueras, P.L. **Evaluation of antimony availability in a mining context: Impact for the environment, and for mineral exploration and exploitation**. Chemosphere, 2023, 311, 137086. https://doi.org/10.1016/j.chemosphere.2022.137086

2022

Sun, R., Shen, J., Grasby, S.E., Zhang, J., Chen, J., Yang, C., & Yin, R. **CO_2 buildup drove global warming, the Marinoan deglaciation, and the genesis of the Ediacaran cap carbonates.** Precambrian Research, 2022, 383, 106891. https://doi.org/10.1016/j.precamres.2022.106891

Font, E., Duarte, L.V., Dekkers, M.J., Remazeilles, C., Egli, R., Spangenberg, J.E., ... & Adatte, T. **Rapid light carbon releases and increased aridity linked to Karoo–Ferrar magmatism during the early Toarcian oceanic anoxic event**. Scientific reports, 2022, 12(1), 1-13. https://doi.org/10.1038/s41598-022-08269-y

Al-Suwaidi, A.H., Ruhl, M., Jenkyns, H.C., Damborenea, S. E., Manceñido, M.O., Condon, D. J., ... & Hesselbo, S.P. **New age constraints on the Lower Jurassic Pliensbachian–Toarcian Boundary at Chacay Melehue (Neuquén Basin, Argentina)**. Scientific reports, 2022, 12(1), 1-10. https://doi.org/10.1038/s41598-022-07886-x

Indraswari, A.O., Frieling, J., Mather, T.A., Dickson, A., Jenkyns, H., & Idiz, E. **The influence of sediment thermal maturity and hydrocarbon formation on Hg behaviour in the stratigraphic record**. Authorea, 2022. https://doi.org/10.1002/essoar.10512883.1

Marko, F., Mojzeš, A., Gajdoš, V., Rozimant, K., Dyda, M., Bezak, V., ... & Andrassy, E. **Multi-method field detection of map-scale faults and their parameters: Case study from the Vikartovce fault (Western Carpathians)**. Geologica Carpathica, 2022, 73(5). https://doi.org/10.31577/GeolCarp.73.5.1

Zhang, P., Lu, J., Yang, M., Bond, D. P., Greene, S. E., Liu, L., ... & Hilton, J. **Volcanically-Induced Environmental and Floral Changes Across the Triassic-Jurassic (TJ) Transition**. Frontiers in Ecology and Evolution, 2022, 10. https://doi.org/10.3389/fevo.2022.853404

Cramwinckel, M. J., van der Ploeg, R., van Helmond, N. A., Waarlo, N., Agnini, C., Bijl, P. K., ... & Sluijs, A. **Deoxygenation and organic carbon sequestration in the Tethyan realm associated with the middle Eocene climatic optimum**. GSA Bulletin, 2022, https://doi.org/10.1130/B36280.1

Bracquart, E., Charbonnier, G., Garel, S., Munier, T., Adatte, T., & Danzelle, J. **New evidences of subaerial volcanism as a trigger for the Kilian event (Aptian-Albian transition) and major climatic changes from offshore Morocco (DSDP Site 545)**. Global and Planetary Change, 2022, 218, 103959. https://doi.org/10.1016/j.gloplacha.2022.103959

Lv, D., Wang, L., Isbell, J.L., Lu, C., Li, P., Wang, Y., & Zhang, Z. **Records of chemical weathering and volcanism linked to paleoclimate transition during the Late Paleozoic Icehouse**. Global and Planetary Change, 2022, 217, 103934. https://doi.org/10.1016/j.gloplacha.2022.103934

Xu, X.T., Shao, L.Y., Eriksson, K.A., Pang, B., Wang, S., Yang, C.X., & Hou, H.H. **Terrestrial records of the early Albian Ocean Anoxic Event: Evidence from the Fuxin lacustrine basin, NE China**. Geoscience Frontiers, 2022, 13(1), 101275. https://doi.org/10.1016/j.gsf.2021.101275

Lu, Y., Hao, F., Shen, J., Lu, Y., Song, H., Wang, Y., & Gou, Q. **High-resolution volcanism-induced oceanic environmental change and its impact on organic matter accumulation in the Late Ordovician Upper Yangtze Sea**. Marine and Petroleum Geology, 2022, 136, 105482. https://doi.org/10.1016/j.marpetgeo.2021.105482

Lu, Y., Shen, J., Wang, Y., Lu, Y., Algeo, T. J., Jiang, S., ... & Gou, Q. **Seawater sources of Hg enrichment in Ordovician-Silurian boundary strata, South China**. Palaeogeography, Palaeoclimatology, Palaeoecology, 2022, 601, 111156. https://doi.org/10.1016/j.palaeo.2022.111156

Grebenshchikova, V.I., & Kuzmin, M.I. **Mercury in the Baikal aquatic ecosystem (Lake Baikal, its tributaries, Angara River source)**. Limnology and Freshwater Biology, 2022, 1302-1304. https://doi.org/10.31951/2658-3518-2022-A-3-1302

Ghezzi, L., Valerio, M., & Petrini, R. **Novel Determination of Elemental Mercury in Silicate Rock by Thermal Desorption.** Analytical Letters, 2022, 1-9. https://doi.org/10.1080/00032719.2022.2125984

Barquero, J.I.; Lorenzo, S.; Esbrí, J.M.; Rivera, S.; González-Valoys, A.C.; García-Ordiales, E.; Higueras, P. **Geochemical Assessment of Mineral Resource Potential in a Hg-Sb-Pb-Zn Mining Area: The Almadén and Guadalmez Synclines (South-Central Spain)**. Appl. Sci. 2022, 12, 11351. https://doi.org/10.3390/app122211351

Liu, Z., Tian, H., Yin, R., Chen, D., & Gai, H. **Mercury loss and isotope fractionation during thermal maturation of organic-rich mudrocks**. Chemical Geology, 2022, 121144. https://doi.org/10.1016/j.chemgeo.2022.121144

Garcia Ramos, L. **Improved understanding of the behaviour of mercury and other trace metals in basaltic magmas**. Doctoral dissertation, University of Oxford, 2022. https://ora.ox.ac.uk/objects/uuid:b861e958-eaba-4830-9778-0e616d7e6112

Rukhlov, A.S., Mashyanov, N.R., Pitirimov, P.V., Hickin, A.S., Golovetskyy, M., and Coats, B. **Real-time air mercury response from sediment-covered, volcanogenic massive sulphide mineralization on southern Vancouver Island, British Columbia, Canada**., EGU General Assembly 2022, Vienna, Austria, EGU22-6902. https://doi.org/10.5194/egusphere-egu22-6902

Rukhlov, A.S., Mashyanov, N.R., Pitirimov, P.V., Hickin, A.S., Golovetskyy, M., and Coats, B., 2022. **Gaseous elemental mercury (GEM) response from sediment-covered, volcanogenic massive sulphide mineralization on southern Vancouver Island**. British Columbia Ministry of Energy, Mines and Low Carbon Innovation, British Columbia Geological Survey Paper 2022-01, 123-135

Qiu, Z., Wei, H., Tian, L., Corso, J. D., Zhang, J., & Zou, C. **Different controls on the Hg spikes linked the two pulses of the Late Ordovician mass extinction in South China**. Scientific Reports, 2022, 12(1), 1-12. https://doi.org/10.1038/s41598-022-08941-3

Ge, X., Chen, D., Zhang, G., Huang, T., Liu, M., & El-Shafeiy, M. **Marine redox evolution and organic accumulation in an intrashelf basin, NE Sichuan Basin during the Late Permian**. Marine and Petroleum Geology, 2022, 105633. https://doi.org/10.1016/j.marpetgeo.2022.105633

Yin, R., Chen, D., Pan, X., Deng, C., Chen, L., Song, X., & Lehmann, B. **Mantle Hg isotopic heterogeneity and evidence of oceanic Hg recycling into the mantle**. Nature Communications, 2022, 13(948). https://doi.org/10.1038/s41467-022-28577-1

Xiao-Tao Xu, Long-Yi Shao, Kenneth A. Eriksson, Bo Pang, Shuai Wang, Cheng-Xue Yang, Hai-Hai Hou. **Terrestrial records of the early Albian Ocean Anoxic Event: Evidence from the Fuxin lacustrine basin, NE China**. Geoscience Frontiers, 2022, 13(1), 101275. https://doi.org/10.1016/j.gsf.2021.101275

Myagkaya, I. N., Gustaytis, M. A., Saryg-ool, B. Y., & Lazareva, E. V. **Mercury Partitioning and Behavior in Streams and Source Areas Affected by the Novo-Ursk Gold Sulfide Tailings (West Siberia, Russia)**. Mine Water and the Environment, 2022, 1-21. https://doi.org/10.1007/s10230-022-00859-6

A. Loria, Y.R. Ramos-Arroyo, D. Rocha, et al. **Widespread elevated concentrations of gaseous elemental mercury in Guanajuato, Mexico, centuries after historical silver refining by mercury amalgamation**. Science of the Total Environment, 2022. https://doi.org/10.1016/j.scitotenv.2022.157093

2021

Nikolay Mashyanov. **Mercury in gas and oil deposits: corrosion problem**. Corrosion in the Oil & Gas Industry 2020, E3S Web of Conferences 225, 2021. https://doi.org/10.1051/e3sconf/202122501009

Rukhlov, A.S., Ootes, L., Hickin, A.S., and Mashyanov, N.R. **Near-surface mercury vapour haloes in air above ore deposits and faults on Vancouver Island: Insights into buried materials in real-time?** In: Geological Fieldwork 2020, British Columbia. Ministry of Energy, Mines and Low Carbon Innovation, British Columbia Geological Survey Paper 2021-01, 2021, 113-143

L.P. Rikhvanova, E.E. Lyapina, D.V. Yusupova, E.M. Tursunalieva, and A.A. Pavlova. **Mercury Emanations from the Baikal Rift: Evidence from the Study of Annual Tree Rings (an Example of the Tunka Depression)**. Doklady Earth Sciences, 2021, 496(1), 32–36. https://doi.org/10.1134/S1028334X21010190

EE Lyapina and AA Cherkashina. **Geochemical characteristics of soils in natural and disturbed landscapes of the Tunka basin**. Environmental transformation and sustainable development in Asian region. Earth and Environmental Science, 2021, 629, 012072. https://doi.org/10.1088/1755-1315/629/1/012072

Makshakov AS, Kravtsova RG. **Stream Sediments of the Pestrinsk Silver-Bearing System (Northeastern Russia)**. Minerals, 2021; 11(1),65. https://doi.org/10.3390/min11010065

S.N. Kokh, E.V. Sokol, M.A. Gustaytis, I.A. Sokol, A.S. Deviatiiarova. **Onshore mud volcanoes as a geological source of mercury: Case study from the Kerch Peninsula, Caucasus continental collision zone**. Sci. Total Environ. 2021 751, 141806. https://doi.org/10.1016/j.scitotenv.2020.141806

Kokh, S.N.; Sokol, E.V.; Gustaytis, M.A. **Mercury Anomaly in Oligocene–Miocene Maykop Group Sediments (Caucasus Continental Collision Zone): Mercury Hosts, Distribution, and Sources**. Minerals, 2021, 11, 751. https://doi.org/10.3390/min11070751

Marshall, B.G.; Camacho, A.A.; Jimenez, G.; Veiga, M.M. **Mercury Challenges in Mexico: Regulatory, Trade and Environmental Impacts**. Atmosphere, 2021, 12(57). https://doi.org/10.3390/atmos12010057

Brahimsamba Bomou, Guillaume Suan, Jan Schlögl, Anne-Sabine Grosjean, et al. **The palaeoenvironmental context of Toarcian vertebrate-yielding shales of southern France (Hérault).** Geological Society, London, Special Publications, 2021, SP514-2021-16. https://doi.org/10.1144/SP514-2021-16

Alexei S. Rozanov, Irina N. Myagkaya, Anton V. Korzhuk, Nikita I. Ershov, Ivan S. Kirichenko, Maria A. Gustaytis, Bagai-ool Yu. Saryg-ool, Victor I. Malov, Aleksandra A. Shipova, Elena V. Lazareva, Sergey E. Peltek. **Metagenomics data of microbial communities in bacterial mats and bottom sediments in water bodies within the Kurai Mercury Province (Gorny Altai, Russia)**. Data in Brief, 2021, 36. https://doi.org/10.1016/j.dib.2021.107099

Xueyun Wang, Changzhou Deng, Zongyong Yang, Jing-Jing Zhu, Runsheng Yin. **Oceanic mercury recycled into the mantle: Evidence from positive Δ199Hg in lamprophyres**. Chemical Geology, 2021, 584, 120505. https://doi.org/10.1016/j.chemgeo.2021.120505

Mazaheri-Johari, M., Gianolla, P., Mather, T.A., et al. **Mercury deposition in Western Tethys during the Carnian Pluvial Episode (Late Triassic)**. Sci Rep, 2021, 11, 17339. https://doi.org/10.1038/s41598-021-96890-8

Ze-Rui Ray Liu, Mei-Fu Zhou, Wei Wang. **Mercury anomalies across the Ediacaran–Cambrian boundary: Evidence for a causal link between continental erosion and biological evolution**. Geochimica et Cosmochimica Acta, 2021, 304, 327-346. https://doi.org/10.1016/j.gca.2021.04.011

Guangyou Zhu, Kun Zhao, Tingting Li, Zhiyao Zhang, Shunlin Tang, Pengju Wang. **Anomalously high enrichment of mercury in early Cambrian black shales in South China**. J. Asian Earth Sciences, 2021, 216, 104794. https://doi.org/10.1016/j.jseaes.2021.104794

Guangyou Zhu, Pengju Wang, Tingting Li, Kun Zhao, Wang Zheng, Xinbin Feng, Jun Shen, Stephen E. Grasby, Guangyi Sun, Shunlin Tang, Huihui Yan. **Mercury record of intense hydrothermal activity during the early Cambrian, South China**. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 568, 2021, 110294. https://doi.org/10.1016/j.palaeo.2021.110294

Ze-Rui Ray Liu, Mei-Fu Zhou, Wei Terry Chen, Anthony E. Williams-Jones, Xiang-Dong Li, Run-Sheng Yin, Hugh O'Brien, Yann Lahaye. **Mercury and sulfur isotopic evidence for the linkages between the ca. 510 Ma Kalkarindji large igneous province and trilobite crisis**. Earth and Planetary Science Letters, 2021, 566, 116947. https://doi.org/10.1016/j.epsl.2021.116947

Sial AN, Chen J, Korte C, Pandit MK, Spangenberg JE, Silva-Tamayo JC, Lacerda LDde, Ferreira VP, Barbosa JA, Gaucher C, Pereira NS and Riedel PR. **Hg Isotopes and Enhanced Hg Concentration in the Meishan and Guryul Ravine Successions: Proxies for Volcanism Across the Permian Triassic Boundary**. Front. Earth Sci., 2021, 9:651224. https://doi.org/10.3389/feart.2021.651224

Jing Lu, Ye Wang, Minfang Yang, Longyi Shao, Jason Hilton. **Records of volcanism and organic carbon isotopic composition ($\delta^{13}C_{org}$) linked to changes in atmospheric pCO_2 and climate during the Pennsylvanian icehouse interval**. Chemical Geology, 2021, 570, 120168. https://doi.org/10.1016/j.chemgeo.2021.120168

Guangyou Zhu, Pengju Wang, Tingting Li, Kun Zhao, Huihui Yan, Jingfei Li, Lei Zhou. **Nitrogen geochemistry and abnormal mercury enrichment of shales from the lowermost Cambrian Niutitang Formation in South China: Implications for the marine redox conditions and hydrothermal activity**. Global and Planetary Change, 2021, 199, 103449. https://doi.org/10.1016/j.gloplacha.2021.103449

Jing Lu, Ye Wang, Minfang Yang, Longyi Shao, Jason Hilton. **Records of volcanism and organic carbon isotopic composition (δ13Corg) linked to changes in atmospheric pCO2 and climate during the Pennsylvanian icehouse interval.** Chemical Geology, 2021, 570, 120168. https://doi.org/10.1016/j.chemgeo.2021.120168

2020

Mathebula, M.W., Panichev, N. & Mandiwana, K. **Determination of mercury thermospecies in South African coals in the enhancement of mercury removal by pre-combustion technologies**. Sci Rep 10, 2020, 19282. https://doi.org/10.1038/s41598-020-76453-z

Qingyi Cao, Liu Yang, Yahui Qian, Handong Liang. **Study on Mercury Species in Coal and Pyrolysis-Based Mercury Removal before Utilization**. ACS Omega 2020, 5(32), 20215–20223. https://doi.org/10.1021/acsomega.0c01875

N. Mashyanov, S. Pogarev, V. Ryzhov, E. Panova. **Mercury occurrence in shungite and coal**. EGU2020-5488. https://doi.org/10.5194/egusphere-egu2020-5488

L.N. Luchsheva, V.B. Kurnosov, and Yu.A. Konovalov. **Mercury Thermoforms and Their Distribution in the Sedimentary Sequence of the Juan De Fuca Ridge**. Geochemistry International, 2020, 58(8), 922-932. https://doi.org/10.1134/S0016702920060051

Kirill I. Aksentov, Valentina V. Sattarova. **Mercury geochemistry of deep-sea sediment cores from the Kuril area, northwest Pacific**. Progress in Oceanography, 2020, 180, 102235. https://doi.org/10.1016/j.pocean.2019.102235

Jicheng Xia, Jianxu Wang, Leiming Zhang, Christopher W.N. Anderson, Xun Wang, Hua Zhang, Zhihui Dai, Xinbin Feng. **Screening of native low mercury accumulation crops in a mercury polluted mining region: Agricultural planning to manage mercury risk in farming communities.** Journal of Cleaner Production 262 (2020) 121324. https://doi.org/10.1016/j.jclepro.2020.121324

Samantha Jiménez-Oyola, María-Jesús García-Martínez, Marcelo F. Ortega, David Bolonio, Clara Rodríguez, José-María Esbrí, Juan F. Llamas, Pablo Higueras. **Multi-pathway human exposure risk assessment using Bayesian modeling at the historically largest mercury mining district**. Ecotoxicology and Environmental Safety 201.2020. 110833. https://doi.org/10.1016/j.ecoenv.2020.110833

Runsheng Yin, Xin Pan, Changzhou Deng, Guangyi Sun, Sae Yun Kwon, Ryan F. Lepak, James P. Hurley. **Consistent trace element distribution and mercury isotopic signature between a shallow buried volcanic-hosted epithermal gold deposit and its weathered horizon**. Environmental Pollution. 2020, 259, 113954. https://doi.org/10.1016/j.envpol.2020.113954

Thelma Akanchise, Sandra Boakye, Lawrence Sheringham Borquaye, Matt Dodd, Godfred Darko. **Distribution of heavy metals in soils from abandoned dump sites in Kumasi, Ghana**. Scientific African 10 (2020) e00614. https://doi.org/10.1016/j.sciaf.2020.e00614

A. Zaputlyaeva, A. Mazzini, M. Blumenberg, G. Scheeder, W.M. Kürschner, J. Kus, M.T. Jones, J. Frieling. **Recent magmatism drives hydrocarbon generation in northeast Java, Indonesia**. Scientific Reports, 2020, 10:1786. https://doi.org/10.1038/s41598-020-58567-6

Zhidong Xu, Qinhui Lu, Xiaohang Xu, Xinbin Feng, Longchao Liang, Lin Liu, Chan Li, Zhuo Chen, Guangle Qiu. **Multi-pathway mercury health risk assessment, categorization and prioritization in an abandoned mercury mining area: A pilot study for implementation of the Minamata Convention**. Chemosphere, 2020, 260, 127582, https://doi.org/10.1016/j.chemosphere.2020.127582

Sun, Y., Guo, Z., Du, J., & Zhao, W. **Diffuse emission and transport of gaseous elemental mercury (GEM) in the Mapamyum geothermal system, Western Tibet (China)**. Journal of Volcanology and Geothermal Research, 2020, 106825. https://doi.org/10.1016/j.jvolgeores.2020.106825

Gerta Keller, Paula Mateo, Johannes Monkenbusch, Nicolas Thibault, Jahnavi Punekar, Jorge E. Spangenberg, Sigal Abramovich, Sarit Ashckenazi-Polivoda, Blair Schoene, Michael P. Eddy, Kyle M. Samperton, Syed F.R. Khadri, Thierry Adatte. **Mercury linked to Deccan Traps volcanism, climate**

change and the end-Cretaceous mass extinction. Global and Planetary Change, 2020, 194, 103312. https://doi.org/10.1016/j.gloplacha.2020.103312

Daoliang Chu; Stephen E. Grasby; Haijun Song; Jacopo Dal Corso; Yao Wang; Tamsin A. Mather; Yuyang Wu; Huyue Song; Wenchao Shu; Jinnan Tong; Paul B. Wignall. **Ecological disturbance in tropical peatlands prior to marine Permian-Triassic mass extinction**. Geology, 2020, 48(3): 288–292. https://doi.org/10.1130/G46631.1

2019

V. Rimondi, P. Costagliola, P. Lattanzi, G. Morelli, G. Cara, C. Cencetti, C. Fagotti, A. Fredduzzi, G. Marchetti, A. Sconocchia, S. Torricelli. **A 200 km-long mercury contamination of the Paglia and Tiber floodplain: Monitoring results and implications for environmental management**. Environmental Pollution 255 (2019) 113191. https://doi.org/10.1016/j.envpol.2019.113191

David Melero, Belén Lobato, Maria Antonia López-Antón, Maria Rosa Martínez-Tarazona. **Identification of mercury species in minerals with different matrices and impurities by thermal desorption technique**. 2019. Environ Sci Pollut Res 26, 10867–10874. https://doi.org/10.1007/s11356-019-04245-8

Jianxu Wang, Xuecheng Sun, Ying Xing, Jicheng Xia, Xinbin Feng. **Immobilization of mercury and arsenic in a mine tailing from a typical Carlin-type gold mining site in southwestern part of China**. Journal of Cleaner Production 240 (2019) 118171. https://doi.org/10.1016/j.jclepro.2019.118171

Runsheng Yin, Changzhou Deng, Bernd Lehmann, Guangyi Sun, Ryan F. Lepak, James P. Hurley, Chenghai Zhao, Guiwen Xu, Qinping Tan, Zhuojun Xie, and Ruizhong Hu. **Magmatic-Hydrothermal Origin of Mercury in Carlin-style and Epithermal Gold Deposits in China: Evidence from Mercury Stable Isotopes**. ACS Earth and Space Chemistry, 2019, 3(8), 1631-1639. https://doi.org/10.1021/acsearthspacechem.9b00111

Yan J., Wang C., Wang Z., Yang S., & Li P. **Mercury concentration and speciation in mine wastes in Tongren mercury mining area, southwest China and environmental effects**. Applied Geochemistry. 2019, 106, 112-119. https://doi.org/10.1016/j.apgeochem.2019.05.008

2018

Felipe Mendes S. Cardia, Rodrigo Miloni Santucci, José Vicente Elias Bernardi, Marco Brandalise de Andrade, Carlos Eduardo Maia de Oliveira. **Mercury concentrations in terrestrial fossil vertebrates from the Bauru Group (Upper Cretaceous), Brazil and implications for vertebrate paleontology**. J. South American Earth Sciences, 2018, 86, 15-22. https://doi.org/10.1016/j.jsames.2018.06.006

2017

Nikolay R. Mashyanov, Sergey E. Pogarev, Elena G. Panova, Nikolay Panichev, Vladimir Ryzhov. **Determination of mercury thermospecies in coal**. Fuel, 2017 203, 973–980. https://doi.org/10.1016/j.fuel.2017.03.085

Xiaolong Sun, Xueyun Si, Yang Xiang, and Dongying Liu. **Soil mercury spatial variations in the fault zone and corresponding influence factors**. Terr. Atmos. Ocean. Sci., Vol. 28, No. 3, 283-294, 2017. https://doi.org/10.3319/TAO.2016.09.29.02

M. Rumayor, J.R. Gallego, E. Rodríguez-Valdés, M. Díaz-Somoano. **An assessment of the environmental fate of mercury species in highlypolluted brownfields by means of thermal desorption**. Journal of Hazardous Materials 2017. 325, 1–7. https://doi.org/10.1016/j.jhazmat.2016.11.068

Charbonnier, G., Morales, C., Duchamp-Alphonse, S. et al. **Mercury enrichment indicates volcanic triggering of Valanginian environmental change**. Sci Rep 7, 40808 (2017). https://doi.org/10.1038/srep40808

O. Vaselli, B. Nisi, D. Rappuoli, J. Cabassi, and F. Tassi. **Gaseous Elemental Mercury and Total and Leached Mercury in Building Materials from the Former Hg-Mining Area of Abbadia San Salvatore (Central Italy)**. Int. J. Environ. Res. Public Health 2017, 14, 425. https://doi.org/10.3390/ijerph14040425

2016

L.M.E. Percival; A.S. Cohen; M.K. Davies; A.J. Dickson; S.P. Hesselbo; H.C. Jenkyns; M.J. Leng; T.A. Mather; M.S. Storm; W. Xu. **Osmium isotope evidence for two pulses of increased continental weathering linked to Early Jurassic volcanism and climate change**. Geology, 2016, 44 (9), 759–762. https://doi.org/10.1130/G37997.1

2015

Canil, D., Crockford, P. W., Rossin, R., & Telmer, K. **Mercury in some arc crustal rocks and mantle peridotites and relevance to the moderately volatile element budget of the Earth**. Chemical Geology, 2015, 396, 134–142. https://doi.org/10.1016/j.chemgeo.2014.12.029

Hagan, N., Robins, N., Hsu-Kim, H. et al. **Mercury hair levels and factors that influence exposure for residents of Huancavelica, Peru**. Environ Geochem Health, 2015, 37, 507–514. https://doi.org/10.1007/s10653-014-9665-9

Percival L. M. E., Witt M. L. I., Mather T. A., Hermoso M., Jenkyns H. C., Hesselbo S. P., Al-Suwaidi A. H., Storm M. S., Xu W., Ruhl M. **Globally enhanced mercury deposition during the end - Pliensbachian extinction and Toarcian OAE: A link to the Karoo–Ferrar Large Igneous Province**. Earth and Planetary Science Letters, 2015, 428, 267–280. https://doi.org/10.1016/j.epsl.2015.06.064

Jacopo Cabassi. **Gaseous mercury (Hg0) in the former mining area of Abbadia San Salvatore (Mt. Amiata, Siena) and in quiescent and active volcanic areas: distribution in air and comparison with other atmospheric pollutants**. PLINIUS, 2015, 41, 2015

Zhou, X., Chen, Z., & Cui, Y. **Environmental impact of CO2, Rn, Hg degassing from the rupture zones produced by Wenchuan Ms 8.0 earthquake in western Sichuan, China**. Environmental geochemistry and health, 2015, 38(5), 1067-1082. https://doi.org/10.1007/s10653-015-9773-1

2014

José Tejero, Pablo L. Higueras, Ignacio Garrido, José M. Esbrí, Roberto Oyarzun, Santiago Español. **An estimation of mercury concentrations in the local atmosphere of Almadén (Ciudad Real Province, South Central Spain) during the twentieth century**. Environ Sci Pollut Res. 22:4833-4841, 2014. https://doi.org/10.1007/s11356-014-2860-5

Higueras, P., Lorenzo, S., Esbrí, J. M., García-Noguero, E. M., & Reyes-Bozo, L. **Soil pollution related to mercury-mining activities in the proximity of Usagre (Badajoz, SW Spain)**. International Journal of Mining, Reclamation and Environment, 28(6), 377–388. https://doi.org/10.1080/17480930.2014.967918

Zhang L., Liu Y., Guo L., Yang D., Fang Z., Chen T., Ren H., Yu B. **Isotope geochemistry of mercury and its relation to earthquake in the Wenchuan Earthquake Fault Scientific Drilling Project Hole-1 (WFSD-1)**. Tectonophysics, 2014, 619-620, 79–85. https://doi.org/10.1016/j.tecto.2013.08.025

2013

Higueras P., Esbrí J. M., Oyarzun R., Llanos W., Martínez-Coronado A., Lillo J., López-Berdonces M. A., García-Noguero E. M. **Industrial and natural sources of gaseous elemental mercury in the Almadén district (Spain): An updated report on this issue after the ceasing of mining and metallurgical activities in 2003 and major land reclamation works**. Environmental Research125(2013)197–208. https://doi.org/10.1016/j.envres.2012.10.011

Li P., Feng X., Qiu G., Zhang J., Meng B., Wang J. **Mercury speciation and mobility in mine wastes from mercury mines in China**. Environmental Science and Pollution Research, 2013, 20, 12, 8374–8381. https://doi.org/10.1007/s11356-013-1731-9

Yin R., Feng X., Wang J., Li P., Liu J., Zhang Y., Chen J., Zheng L., Hu T. **Mercury speciation and mercury isotope fractionation during ore roasting process and their implication to source identification of downstream sediment in the Wanshan mercury mining area, SW China**. Chemical Geology, 2013, 336, 72–79. https://doi.org/10.1016/j.chemgeo.2012.04.030

Vaselli O., Higueras P., Nisi B., Esbrí J. M., Cabassi J., Martínez-Coronado A., Tassi F., Rappuoli D. **Distribution of gaseous Hg in the mercury mining district of Mt. Amiata (Central Italy): A geochemical survey prior the reclamation project**. Environmental Research, 2013, 125, 179–187. https://doi.org/10.1016/j.envres.2012.12.010

2012

Z.H. Dai, X.B. Feng, J. Sommar, P. Li, X.W. Fu. **Spatial distribution of mercury deposition fluxes in Wanshan Hg mining area, Guizhou province, China**. Atmos. Chem. Phys., 12, 6207–6218, 2012. https://doi.org/10.5194/acp-12-6207-2012

Li P., Feng X., Qiu G., Shang L., Wang S. **Mercury pollution in Wuchuan mercury mining area, Guizhou, Southwestern China: The impacts from large scale and artisanal mercury mining**. Environment International, 2012, 42, 59–66. https://doi.org/10.1016/j.envint.2011.04.008

2011

Janaina Correa Fiorentino, Jacinta Enzweiler, Romulo S. Angélica. **Geochemistry of Mercury Along a Soil Profile Compared to Other Elements and to the Parental Rock: Evidence of External Input.** Water Air Soil Pollut (2011) 221:63–75. https://doi.org/10.1007/s11270-011-0769-x

David Kocman, Polona Vreca, Vesna Fajon, Milena Horvat. **Atmospheric distribution and deposition of mercury in the Idrija Hg mine region, Slovenia**. Environ. Res. 111 (2011) 1–9. https://doi.org/10.1016/j.envres.2010.10.012

A. Martínez-Coronado, R. Oyarzun, J.M. Esbrí, W. Llanos, P. Higueras. **Sampling high to extremely high Hg concentrations at the Cerco de Almadenejos, Almadén mining district (Spain): The old metallurgical precinct (1794 to 1861 AD) and surrounding areas**. J. Geochem. Explor. 109 (2011) 70–77. https://doi.org/10.1016/j.gexplo.2010.04.007

Janaina Correa Fiorentino, Jacinta Enzweiler, Romulo S. Angélica. **Geochemistry of Mercury Along a Soil Profile Compared to Other Elements and to the Parental Rock: Evidence of External Input**. Water Air Soil Pollut (2011) 221:63–75. doi 10.1007/s11270-011-0769-x

C.S. Eckley, M. Gustin, F. Marsik, M.B. Miller. **Measurement of surface mercury fluxes at active industrial gold mines in Nevada (USA).** Science of the Total Environment 409 (2011) 514–522. https://doi.org/10.1016/j.scitotenv.2010.10.024

2010

Gustaitis M. A., Lazareva E. V., Bogush A. A., Shuvaeva O. V., Shcherbakova I. N., Polyakova E. V., Badmaeva Zh. O., Anoshin G. N. **Distribution of mercury and its species in the zone of sulphide**

tailing. Doklady Earth Sciences, 2010, 432, № 2, 778–782. https://doi.org/10.1134/S1028334X10060152

Ivannikova N.V., Shiryaeva O.A., Karpov Yu.A. **Atomic absorption determination of mercury in solid samples of placer gold**. Inorganic Materials, 2010, 46, 14, 1499–1502. https://doi.org/10.1134/S0020168510140050

2009

Oyarzun R., Cubas P., Higueras P., Lillo J., Llanos W. **Environmental assessment of the arsenic-rich, Rodalquilar gold–(copper–lead–zinc) mining district, SE Spain: data from soils and vegetation**. Environmental Geology, 2009, 58, № 4, 761–777. https://doi.org/10.1007/s00254-008-1550-3

2008

Ping Li, Xinbin Feng, Guangle Qiu, Lihai Shang, Shaofeng Wang. **Mercury exposure in the population from Wuchuan mercury mining area, Guizhou, China**. Science Total Environ., 2008, 395, 72 – 7 9. https://doi.org/10.1016/j.scitotenv.2008.02.006

Guanghui Li, Xinbin Feng, Guangle Qiu, Xiangyang Bi, Zhonggen Li, Cheng Zhang, Dingyong Wang, Lihai Shang, Yanna Guo. **Environmental mercury contamination of an artisanal zinc smelting area in Weining County, Guizhou, China**. Environmental Pollution, 2008, 154, 21-31. https://doi.org/10.1016/j.envpol.2007.11.012

2006

Feng X., Dai Q., Qiu G., Li G., He L., Wang D. **Gold mining related mercury contamination in Tongguan, Shaanxi Province, PR China**. Applied Geochemistry, 2006, V. 21, № 11, 1955–1968. https://doi.org/10.1016/j.apgeochem.2006.08.014

Garcia-Sanchez A, Contreras F, Adams M, Santos F. **Airborne total gaseous mercury and exposure in a Venezuelan mining area**. Internat. J. Environmental Health Research, 2006, 16, № 5, 361–373. https://doi.org/10.1080/09603120600869315

Molina J. A., Oyarzun R., Esbre J. M., Higueras P. **Mercury accumulation in soils and plants in the Almaden mining district, Spain: one of the most contaminated sites on Earth.** Environmental Geochemistry and Health, 2006, 28, № 5, 487–498. https://doi.org/10.1007/s10653-006-9058-9

2004

Pablo Higueras, Roberto Oyarzun, Jorge Oyarzún, Hugo Maturana, Javier Lillo, Diego Morata. **Environmental assessment of copper–gold–mercury mining in the Andacollo and Punitaqui districts, northern Chile**. Appl. Geochem., V. 19, 11, 2004, 1855-1864. https://doi.org/10.1016/j.apgeochem.2004.04.001

1990

Palinkaš, A.L., Sholupov, S.E., Mashyanov, N.R., Durn, G., Miko, S. **Mercury in atmosphere over rural, urban and industrial parts of Zagreb city**. Rudarsko-geološko-naftni zbornik, Zagreb, 1990, 2, 19-27

1989

Palinkaš, A.L., Sholupov, S., Šinkovec, B., Miko, S., Sesvečan, T. **Mercurv as a Pathfinder Element for Istrian Bauxite Deposits – A Tentative Exploration Model**. Rudarsko-geološko-naftni zbornik, Zagreb, 1989, 1, 47-62

Human Biomonitoring

2026

Haraguchi, K., Sakamoto, M., Nagasaka, H., Uchida, K., Ito, Y., Horvat, M., ... & Nakamura, M. **Method development and production of an ambient-stable blood certified reference material for total mercury, methylmercury, and trace elements**. Analytica Chimica Acta, 345580, 2026. https://doi:10.1016/j.aca.2026.345580

Safdar, R. **Quotative assessment of environmental mercury in beauty salons in Twin cities. Lumex analyzer**. Sustainable Development Policy Institute (SDPI), an independent, non-profit research institute working on sustainable development.: July 2026. https://sdpi.org/assets/lib/uploads/Final%20Lumax%20Report%20CLEAN%20%20100826.pdf

2025

Monteiro, L. C., Costa, F. J. V., de Carvalho, C. B. V., Júnior, A. S., Duar, B. A., & Bernardi, J. V. E. **Mercury contamination imported shark meat ("cação") and implications for human exposure in Brazil**. Regional Studies in Marine Science, 2026, 105214. https://doi:10.1016/j.rsma.2026.105214

Elvira, M. V., Diwa, R., Deocaris, C. C., Lorenzo, J., Jumawan, J., & Belo, L. P. **Mercury pollution from artisanal and small-scale gold mining (ASGM) and its impacts on health risks associated with the consumption of mangrove clam Polymesoda erosa from Butuan Bay, Philippines**. SSRN, 2025. https://doi:10.2139/ssrn.5548032

Hotchkiss, G., & Rosenman, K. **Trends in Elevated Blood and Urine Mercury Levels in Michigan, 2006-2023**. Journal of Environmental Health, 2025, 88(3). https://doi:10.70387/001c.145235

Galvis-Ballesteros, J., Duran-Izquierdo, M., Valdelamar-Villegas, J., Sierra-Marquez, L., & Olivero-Verbel, J. **Mercury Exposure, Gene Expression, and Intelligence Quotient in Afro-Descendant Children from Two Colombian Regions**. Toxics, 2025, 13(9), 786. https://doi:10.3390/toxics13090786

Li, P., Du, B., Feng, L., & Feng, X. **Human Health Risks Associated with Rice Consumption**. In Methylmercury Accumulation in Rice, 2025, 42-87. CRC Press. https://doi:10.1201/9781003404941

Serik, B., Shinetova, L. E., Efimova, N. V., Bekeyeva, S. A., Abdrakhmanova, B. M., Dauletova, A. O., ... & Tamadon, A. **Mercury exposure, epigenetic modifications, and genetic susceptibility: insights from molecular docking and population analysis**. Frontiers in Public Health, 2025, 13, 1710032. https://doi:10.3389/fpubh.2025.1710032

2024

Ivanova, E., Rumiantseva, O., Kopylov, D., Elizarova, A., & Komov, V. **Mercury content and the ratio of stable nitrogen isotopes in the hair of residents from industrial city and specially protected natural area of Russia**. Environmental Science and Pollution Research, 2024, 1-12. https://doi:10.1007/s11356-024-35550-6

Aleksina, I.I., Ivanova, E.S. & Komov, V.T. **Dynamics of the total mercury content in the hair of adolescent residents of the industrial center of Northwest Russia (Cherepovets City)**. Environmental Science and Pollution Research, 2024. https://doi:10.1007/s11356-024-35354-8

Acheampong, A., Sarpong, K., Akoto, O., Apau, J., & Darko, G. **Health Risk Assessments of Potentially Toxic Elements in Selected Medicinal Plants from the Ashanti Region of Ghana**. Chemistry Africa, 2024, 1-19. https://doi:10.1007/s42250-024-01076-0

Marrugo-Negrete, J., Paternina-Uribe, R., Enamorado-Montes, G., Herrera-Arango, J., Rosso-Pinto, M., Ospino-Contreras, J., & Pinedo-Hernández, J. **Groundwater quality assessment in the La Mojana region of northern Colombia: implications for consumption, irrigation, and human health risks**. Applied Water Science, 2024, 14(5), 96. https://doi:10.1007/s13201-024-02156-9

Sun, Y., & Yang, C. **Soil Mercury Pollution of Hainan Island, China: Patterns, Influencing Factors, and Health Risks**. Sustainability, 2024, 16(7), 3083. https://doi:10.3390/su16073083

Li, P., Du, B., Feng, L., & Feng, X. (2024). HUMAN METHYLMERCURY EXPOSURE VIA RICE CONSUMPTION. Methylmercury Accumulation in Rice: Process and Regulation, 42.

Rodríguez, R., Garcia-Gonzalez, H., Hernández, Z., & Sanmiquel, L. **Tackling Arsenic and Mercury Contamination: Implications for Sustainable Mining and Occupational Health Risks**. Sustainability, 2024, 16(10), 4027. https://doi.org/10.3390/su16104027

Wang, G., Hong, Q., Mei, J., Chen, J., Wu, W., Han, F., ... & Yang, S. **Influence of selenium supplementation on mercury levels in hair of metropolitan residents in China: spatial distribution, impact factors, and antagonism**. Exposure and Health, 2024, 1-16. https://doi.org/10.1007/s12403-024-00630-y

2023

Fernandez, L. J. W. **Childhood Anemia: Screening Tools, Risk Factors, and Barriers to Treatment in Tumbes, Peru** (Doctoral dissertation, Portland State University). https://digitalcollections.ohsu.edu/record/10013

Rodríguez, R., Garcia-Gonzalez, H., Pastrana, Á., & Hernández, Z. **Health and Safety Protocol for the Management of Building Demolition Waste with High Mercury Contamination**. Buildings, 2023, 13(5), 1310. https://doi.org/10.3390/buildings13051310

Vezzone, M., Cesar, R., Serrano, A., Lourenço, R., Rodrigues, A. P., Castilhos, Z., ... & Polivanov, H. **Mercury Contamination in Sediments and Fish from an Urban Tropical Estuary: Ecological and Human Health Risks**. Water, Air, & Soil Pollution, 2023, 234(2), 72. https://doi.org/10.1007/s11270-023-06089-y

Franco, C.R., Miranda-Andrades, J.R., Toloza, C. A., Larrudé, D.G., Maqueira-Espinosa, L., Aucelio, R.Q., ... & Pedrozo-Peñafiel, M. J. **Determination of thiomersal and mercurial residues by photo-degradation and flow injection analysis with luminescence probing using carbon quantum dots prepared from thiourea**. Talanta Open, 2023, 100184. https://doi.org/10.1016/j.talo.2023.100184

C. Du, Z. Li. **Contamination and health risks of heavy metals in the soil of a historical landfill in northern China**. Chemosphere, 2023, 313, 137349. https://doi.org/10.1016/j.chemosphere.2022.137349

2022

Gochfeld, M. **Needs, approaches, and case studies in human health risk communication**. Risk Analysis, 2022, 42(11). https://doi.org/10.1111/risa.14006

Adam, S. Y., Johnson, R., Owusu, F. W. A., & Anka-Brewoo, G. **Quality and Safety Assessment of Omega-3 Fatty Acids Supplements on the Ghanaian Market**. Chemistry Africa, 2022, 5(4), 841-848. https://doi.org/10.1007/s42250-022-00381-w

Guseva, M.A., & Komov, V.T. **Gender differences in blood parameters (ALT, AST) in people with cardiovascular diseases and their relationship to the level of total mercury in the hair**. Limnology and Freshwater Biology, 2022, 1368-1370. https://doi.org/10.31951/2658-3518-2022-A-3-1368

Zhou, X., & Zhang, G. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Regions in a China's Typical Agricultural County: Dehui**. Research Square, 2022. https://doi.org/10.21203/rs.3.rs-1473819/v1

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A. et al. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2022, 1-15. https://doi.org/10.1007/s10653-022-01295-9

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2022, 1-11. https://doi.org/10.1007/s10653-022-01441-3

Ivanova, E., Eltsova, L., Komov, V., Borisov, M., Tropin, N., Borboshova, S., ... & Udodenko, Y. **Assessment of the consumptive safety of mercury in fish from the surface waters of the Vologda region in northwestern Russia**. Environmental Geochemistry and Health, 2022, 1-17. https://doi.org/10.1007/s10653-022-01254-4

Spearman, S.; Bartrem, C.; Sharshenova, A.A.; Salymbekova, K.S.; Isirailov, M.B.; Gaynazarov, S.A.; Gilmanov, R.; von Lindern, I.H.; von Braun, M.; Möller, G. **Comparison of X-ray Fluorescence (XRF) and Atomic Absorption Spectrometry (AAS) Results for an Environmental Assessment at a Mercury Site in Kyrgyzstan**. Appl. Sci. 2022, 12, 1943. https://doi.org/10.3390/app12041943

Keshav, V., Archana, O., Kumari, D., & Reddy, J. (2022). **Bioindicators Helping in Human and Ecological Health**. International Journal of Research and Analytical Reviews, 2022, 9(1), 245-253. E-ISSN 2348-1269

2021

González-Valoys AC, Esbrí JM, Campos JA, Arrocha J, García-Noguero EM, Monteza-Destro T, Martínez E, Jiménez-Ballesta R, Gutiérrez E, Vargas-Lombardo M, Garcia-Ordiales E, García-Giménez R, García-Navarro FJ, Higueras P. **Ecological and Health Risk Assessments of an Abandoned Gold Mine (Remance, Panama): Complex Scenarios Need a Combination of Indices**. Internat. J. Environ. Research and Public Health, 2021, 18(17), 9369. https://doi.org/10.3390/ijerph18179369

Rumiantseva, O., Ivanova, E. & Komov, V. **High variability of mercury content in the hair of Russia Northwest population: the role of the environment and social factors**. Int Arch Occup Environ Health, 2021. https://doi.org/10.1007/s00420-021-01812-w

Opoku Gyamfi, Peter Borgen Sørensen, Godfred Darko, Eugene Ansah, Katrin Vorkamp, Jesper Leth Bak. **Contamination, exposure and risk assessment of mercury in the soils of an artisanal gold mining community in Ghana**. Chemosphere, 2021, 267. https://doi.org/10.1016/j.chemosphere.2020.128910

Osorio-Martinez J, Silva LFO, Flores EMM, Nascimento MS, Picoloto RS, Olivero-Verbel J. **Environmental and human health risks associated with exposure to hazardous elements present in urban dust from Barranquilla, Colombian Caribbean**. J Environ Qual., 2021, 50(2), 350-363. https://doi.org/10.1002/jeq2.20200

Morton Bermea, O., Castro-Larragoitia, J., Arellano Álvarez, Á.A. et al. **Mercury in Blood of Children Exposed to Historical Residues from Metallurgical Activity**. Exposure and Health, 2021. https://doi.org/10.1007/s12403-021-00382-z

Medina Pérez, O.M., Flórez-Vargas, O., Rincón Cruz, G. et al. **Glutathione-related genetic polymorphisms are associated with mercury retention and nephrotoxicity in gold-mining settings of a Colombian population**. Sci Rep., 2021, 11, 8716. https://doi.org/10.1038/s41598-021-88137-3

The Environmental Case Management of Mercury exposed Persons. Ministry of Health, Wellington, New Zealand, 2021. health.govt.nz

Rothenberg, S.E., Korrick, S.A., Liu, J. et al. **Maternal methylmercury exposure through rice ingestion and child neurodevelopment in the first three years: a prospective cohort study in rural China**. Environ Health, 2021, 20(50). https://doi.org/10.1186/s12940-021-00732-z

Lin Jiang, Ruihuan Zhang, Lina Zhang, Rui Zheng, Maosheng Zhong. **Improving the regulatory health risk assessment of mercury-contaminated sites**. J. Hazardous Materials, 2021, 402, 123493. https://doi.org/10.1016/j.jhazmat.2020.123493

Chuanyu Chang, Runsheng Yin, Fang Huang, Ruirui Wang, Chongying Chen, Kang Mao, Xinbin Feng, Hua Zhang. **A new method of predicting the contribution of TGM to Hg in white rice: Using leaf THg and implications for Hg risk control in Wanshan Hg mine area**. Environmental Pollution, 2021, 288, 117727. https://doi.org/10.1016/j.envpol.2021.117727

González-Valoys, A.C., Jiménez Salgado, J.U., Rodríguez, R. et al. **An approach for evaluating the bioavailability and risk assessment of potentially toxic elements using edible and inedible plants—the Remance (Panama) mining area as a model**. Environ Geochem Health, 2021. https://doi.org/10.1007/s10653-021-01086-8

Snow, M. A., Darko, G., Gyamfi, O., Ansah, E., Breivik, K., Hoang, C., ... & Wania. F. **Characterization of inhalation exposure to gaseous elemental mercury during artisanal gold mining and e-waste recycling through combined stationary and personal passive sampling**. Environmental Science: Processes & Impacts, 2021, 23(4), 569-579. https://doi.org/10.1039/D0EM00494D

2020

K. Haraguchi, M. Sakamoto, A. Matsuyama, M. Yamamoto, D.T. Hung, H. Nagasaka, K. Uchida, Y. Ito, H. Kodamatani, M. Horvat, H.M. Chan, V. Rand, C.M. Cirtiu, B-G. Kim, F. Nielsen, A. Yamakawa, N. Mashyanov, N. Panichev, E. Panova, T. Watanabe, N. Kaneko, J. Yoshinaga, R.F. Herwati, A.E. Suoth, H. Akagi. **Development of Human Hair Reference Material Supporting the Biomonitoring of Methylmercury**. Analytical Sciences, 2020, 36(5), 561. https://doi.org/10.2116/analsci.19SBP07

Luz Helena Sánchez Rodríguez, Olga Marcela Medina Pérez, Fernando Rondón González, Giovanna Rincón Cruz, Linda Rocha Muñoz, Oscar Flórez-Vargas. **Genetic Polymorphisms in Multispecific Transporters Mitigate Mercury Nephrotoxicity in an Artisanal and Small-Scale Gold Mining Community in Colombia**. Toxicological Sciences. 2020, V. 178, 2, 338–346. https://doi.org/10.1093/toxsci/kfaa142

Jicheng Xia, Jianxu Wang, Leiming Zhang, Christopher W.N. Anderson, Xun Wang, Hua Zhang, Zhihui Dai, Xinbin Feng. **Screening of native low mercury accumulation crops in a mercury polluted mining region: Agricultural planning to manage mercury risk in farming communities.** Journal of Cleaner Production 262 (2020) 121324. https://doi.org/10.1016/j.jclepro.2020.121324

Samantha Jiménez-Oyola, María-Jesús García-Martínez, Marcelo F. Ortega, David Bolonio, Clara Rodríguez, José-María Esbrí, Juan F. Llamas, Pablo Higueras. **Multi-pathway human exposure risk assessment using Bayesian modeling at the historically largest mercury mining district**. Ecotoxicology and Environmental Safety 201.2020. 110833. https://doi.org/10.1016/j.ecoenv.2020.110833

Nwon M. Adou-Assoumou, Akpé J Adou, Aline A. Krah-Sinan, Florent K Kouakou, Edmee C Mansilla. **Mercury poisoning within the dental clinic Myth or reality in Côte d'Ivoire**. IP Indian Journal of Conservative and Endodontics 2020, 5(3):105–108. https://doi.org/10.18231/j.ijce.2020.025

Opoku Gyamfi, Peter Borgen Sorenson, Godfred Darko, Eugene Ansah, Jesper Leth Bak. **Human health risk assessment of exposure to indoor mercury vapour in a Ghanaian artisanal small-scale**

gold mining community. Chemosphere 241 (2020) 125014. https://doi.org/10.1016/j.chemosphere.2019.125014

Du, B., Li, P., Feng, X., Yin, R., Zhou, J., Maurice, L. **Monthly variations in mercury exposure of school children and adults in an industrial area of southwestern China**. Environmental Research, 2020. https://doi.org/10.1016/j.envres.2020.110362.

Alejandra Manjarres-Suarez & Jesus Olivero-Verbel. **Hematological parameters and hair mercury levels in adolescents from the Colombian Caribbean**. Environ Sci Pollut Res., 27, 14216–14227, 2020. https://doi.org/10.1007/s11356-020-07738-z

Iuliia Aleksina, Viktor Komov. **Factors affecting the mercury concentration in the hair of young residents of the Vologda region, Russia**. Heliyon, 2020, V.6, 8. https://doi.org/10.1016/j.heliyon.2020.e04580

Jay Hammerling, Arielle Kanters, Benjamin Jacobs, Alfred Franzblau, Pauline K. Park, Lena M. Napolitano. **An Unusual Cause of Severe Hypoxemia and Acute Respiratory Distress Syndrome**. Chest, 2020, 158, 2. https://doi.org/10.1016/j.chest.2019.11.058

Feng, Z., Xiao, T., Zhang, G., Zhang, L., Cui, Y., & Jiang, Y. **Mercury spatial distribution characteristics and its exposure of the endangered Jankowski's bunting**. Ecological Research, 2020, 1-12. https://doi.org/10.1111/1440-1703.12117

Ferhat Karaca, Aiganym Kumisbek, Vassilis J. Inglezakis, Seitkhan Azat, Almagul Zhakiyenova, Gulden Ormanova, Mert Guney. **DiMIZA: A dispersion modeling based impact zone assessment of mercury (Hg) emissions from coal-fired power plants and risk evaluation for inhalation exposure.** Engineering Reports, 2020, https://doi.org/10.1002/eng2.12357

S.A. Thomas, B. Mishra, S.C.B. Myneni. **Cellular Mercury Coordination Environment, and Not Cell Surface Ligands, Influence Bacterial Methylmercury Production**. Environmental Science & Technology, 2020, 54(7), 3960-3968. https://doi.org/10.1021/acs.est.9b05915

Zhidong Xu, Qinhui Lu, Xiaohang Xu, Xinbin Feng, Longchao Liang, Lin Liu, Chan Li, Zhuo Chen, Guangle Qiu. **Multi-pathway mercury health risk assessment, categorization and prioritization in an abandoned mercury mining area: A pilot study for implementation of the Minamata Convention**. Chemosphere, 2020, 260, 127582, https://doi.org/10.1016/j.chemosphere.2020.127582

2019

National Elemental Mercury Response Guidebook. USEPA, March 2019. https://www.acac.org/forms/otherpdfs/epamercury2019.pdf

Opoku Gyamfi, Peter Borgen Sorenson, Godfred Darko, Eugene Ansah, Jesper Leth Bak. **Human health risk assessment of exposure to indoor mercury vapour in a Ghanaian artisanal small-scale gold mining community**. Chemosphere 241 (2020) 125014. https://doi.org/10.1016/j.chemosphere.2019.125014

Lenn G Gomah, Rafael S Ngumbu, Ray B Voegborlo. **Dietary Exposure to Heavy Metal Contaminated Rice and Health Risk to the Population of Monrovia**. J. Environmental Science and Public Health, 2019, 3, 474-482. https://doi.org/10.26502/jesph.96120077

Carlos Alberto da Silva, Silvia de Oliveira Santos, Carlos Alexandre Borges Garcia, Gabriela Cugler de Pontes & Julio Cesar Wasserman. **Metals and arsenic in marine fish commercialized in the NE Brazil: Risk to human health**. Human and Ecological Risk Assessment, 2019. https://doi.org/10.1080/10807039.2018.1529552

2018

Buyun Du, Xinbin Feng, Ping Li, Runsheng Yin, Ben Yu, Jeroen E. Sonke, Benjamin Guinot, Christopher W. N. Anderson, and Laurence Maurice. **Use of Mercury Isotopes to Quantify Mercury Exposure Sources in Inland Populations, China**. Environ. Sci. Technol., 2018, 52(9), 5407–5416. https://doi.org/10.1021/acs.est.7b05638

A. Prevodnik, A. Willcox, E. Lymberidi-Settimo, M. Bender, O. Lane. **Mercury Skin-Lightening Creams: Available, Inexpensive and Toxic**. 2018, www.eeb.org / www.zeromercury.org

Wilson E, Lafferty JS, Thiboldeaux R, et al. **Occupational Mercury Exposure at a Fluorescent Lamp Recycling Facility — Wisconsin, 2017**. MMWR Morb Mortal Wkly Rep 2018, 67:763–766. https://doi.org/10.15585/mmwr.mm6727a3externalicon

Ana Paula de Castro Rodrigues, Rodrigo Guerra Carvalheira, Vanessa Gomes, Ana Rosa Linde Arias, Nádia Regina Pereira Almosny, Zuleica Carmen Castilhos, Edison Dausacker Bidone. **Acetylcholinesterase Activity in Fish Exposed to Mercury in Guanabara Bay, RJ, Brazil**. Environmental Pollution and Protection, 2018, 3(4), 91-99. https://doi.org/10.22606/epp.2018.34001

Yuber Palacios-Torres, Karina Caballero-Gallardo, Jesus Olivero-Verbel. **Mercury pollution by gold mining in a global biodiversity hotspot, the Choco biogeographic region, Colombia**. Chemosphere, 2018, 193, 2018, 421-430. https://doi.org/10.1016/j.chemosphere.2017.10.160

2017

Romilda Z. Boerleider, Nel Roeleveld, Paul T.J. Scheepers. **Human biological monitoring of mercury for exposure assessment**. AIMS Environmental Science, 2017, 4 (2): 251-276. https://doi.org/10.3934/environsci.2017.2.251

Sarah E. Rothenberg, Runsheng Yin, James P. Hurley, David P. Krabbenhoft, Yuyun Ismawati, Chuan Hong, and Alexis Donohue. **Stable Mercury Isotopes in Polished Rice (Oryza sativa L.) and Hair from Rice Consumers**. Environ. Sci. Technol. 2017, 51, 11, 6480–6488. https://doi.org/10.1021/acs.est.7b01039

Rodríguez L. H. S., Rodríguez-Villamizar L. A., Flórez-Vargas O., Fiallo, Y. V., Ordoñez Á., del Carmen Gutiérrez M. **No effect of mercury exposure on kidney function during ongoing artisanal gold mining activities in Colombia: A cross-sectional study**. Toxicology and Industrial Health. 2017. V. 33, 1. 67–78. https://doi.org/10.1177/0748233716659031

Loto AO, Oyapero A, Awotile AO, Adenuga-Taiwo A O, Enone LL, Menakaya IN. **Managing amalgam phase down: An evaluation of mercury vapor levels in a dental center in Lagos, Nigeria**. J Dent Res Rev 2017;4:4-8. https://doi.org/10.4103/jdrr.jdrr_20_17

S. Bose-O'Reilly, L. Bernaudat, U. Siebert, G. Roider, D. Nowak, G. Drasch. **Signs and symptoms of mercury-exposed gold miners**. Internat. J. Occupational Medicine and Environmental Health, 2017, 30(2), 249–269. https://doi.org/10.13075/ijomeh.1896.00715

P. Schutzmeier, U. Berger, S. Bose-O'Reilly. **Gold Mining in Ecuador: A Cross-Sectional Assessment of Mercury in Urine and Medical Symptoms in Miners from Portovelo/Zaruma**. Int. J. Environ. Res. Public Health 2017, 14(1), 34. https://doi.org/10.3390/ijerph14010034

Panichev N.A., Panicheva S.E. **Concentration of Total Mercury in Convenience Fish Products and Cooked Fish**. Oceanography & Fisheries Open Access Journal, 2017, 3(1), 29-31. https://doi.org/10.19080/OFOAJ.2017.03.555604

Wilson, E., Lafferty, J. S., Thiboldeaux, R., Tomasallo, C., Grajewski, B., Wozniak, R., & Meiman, J. **Occupational mercury exposure at a fluorescent lamp recycling facility—Wisconsin, 2017**. Morbidity and Mortality Weekly Report, 2018, 67(27), 763

2016

Bose-O'Reilly S., Schierl R., Nowak D., Siebert U., William J. F., Owi F.T., Ir Y.I. **A preliminary study on health effects in villagers exposed to mercury in a small-scale artisanal gold mining area in Indonesia**. Environ. Research. 2016. V. 149. 274–281. https://doi.org/10.1016/j.envres.2016.04.007

D. Rendoo, B. Dayanjav, U. Ganbold, S. Bose-O'Reilly, A. Onom, U. Surenjav, S. Duvjir. **Mercury Levels of Environmentally and Occupationally Exposed Residents in Bornuur and Jargalant Districts of Mongolia**. Environment and Ecology Research, 2016, 4(4), 217-222. https://doi.org/10.13189/eer.2016.040405

Buch A. C., Niemeyer J. C., Correia M. E. F., Vieira Silva-Filho E. **Ecotoxicity of mercury to Folsomia candida and Proisotoma minuta (Collembola: Isotomidae) in tropical soils: Baseline for ecological risk assessment**. Ecotoxicology and Environmental Safety. 2016. V. 127. 22–29. https://doi.org/10.1016/j.ecoenv.2016.01.009

Deng C., Xie H., Ye X., Zhang H., Liu M., Tong Y., Ou L., Yuan W., Wang X. **Mercury risk assessment combining internal and external exposure methods for a population living near a municipal solid waste incinerator**. Environmental Pollution. 2016. V. 219. 1060–1068. https://doi.org/10.1016/j.envpol.2016.09.006

Buyun Du, Ping Li, Xinbin Feng, Guangle Qiu, Jun Zhou and Laurence Maurice. **Mercury Exposure in Children of the Wanshan Mercury Mining Area, Guizhou, China**. Int. J. Environ. Res. Public Health 2016, 13, 1107. https://doi.org/10.3390/ijerph13111107

Doering S, Bose-O'Reilly S, Berger U. **Essential Indicators Identifying Chronic Inorganic Mercury Intoxication: Pooled Analysis across Multiple Cross-Sectional Studies**. PLoS ONE, 2016, 11(8): e0160323. https://doi.org/10.1371/journal.pone.0160323

Grzegorz Majewski, Karolina Kociszewska, Wioletta Rogula-Kozłowska, et.al. **Submicron Particle-Bound Mercury in University Teaching Rooms: A Summer Study from Two Polish Cities**. Atmosphere, 2016, 7(9), 117. https://doi.org/10.3390/atmos7090117

N.A. Panichev, S.E. Panicheva. **Influence of Different Cooking Procedure on the Hg Concentration in Fish**. J Fisheriessciences.com, 2016, 10(1), 63-69.

Norwegian Oil and Gas. **Recommended guidelines for identification, assessment, control and follow-up of mercury exposure,** No 132. 2016.

2015

Bourdineaud, JP., Durrieu, G., Sarrazin, S.L.F. et al. **Mercurial exposure of residents of Santarém and Oriximiná cities (Pará, Brazil) through fish consumption**. Environ Sci Pollut Res 2015, 22, 12150–12161. https://doi.org/10.1007/s11356-015-4502-y

Ardiana Ekawanti, Baiq Dewi Krisnayanti. **Effect of Mercury Exposure on Renal Function and Hematological Parameters among Artisanal and Small-scale Gold Miners at Sekotong, West Lombok, Indonesia**. Journal of Health and Pollution, 2015, 5 (9): 25–32. https://doi.org/10.5696/2156-9614-5-9.25

Ping Li, Xinbin Feng, Hing-Man Chan, Xiaofeng Zhang, and Buyun Du. **Human Body Burden and Dietary Methylmercury Intake: The Relationship in a Rice-Consuming Population**. Environ. Sci. Technol. 2015, 49, 9682−9689. https://doi.org/10.1021/acs.est.5b00195

Copan, L.; Fowles, J.; Barreau, T.; McGee, N. **Mercury Toxicity and Contamination of Households from the Use of Skin Creams Adulterated with Mercurous Chloride (Calomel)**. Int. J. Environ. Res. Public Health, 2015, 12, 10943-10954. https://doi.org/10.3390/ijerph120910943

Hagan, N., Robins, N., Hsu-Kim, H. et al. **Mercury hair levels and factors that influence exposure for residents of Huancavelica, Peru**. Environ Geochem Health, 2015, 37, 507–514. https://doi.org/10.1007/s10653-014-9665-9

Cordy, P., Veiga, M., Bernaudat, L., & Garcia, O. **Successful airborne mercury reductions in Colombia**. Journal of Cleaner Production, 2015, 108, 992–1001. https://doi.org/10.1016/j.jclepro.2015.06.102

Hagan N., Robins N., Gonzales R. D. E., Hsu-Kim H. **Speciation and bioaccessibility of mercury in adobe bricks and dirt floors in Huancavelica, Peru**. Environmental Geochemistry and Health, 2015, 37(2). 263–272. https://doi.org/10.1007/s10653-014-9644-1

Li P., Du B., Chan H. M., Feng X. **Human inorganic mercury exposure, renal effects and possible pathways in Wanshan mercury mining area, China**. Environmental Research, 2015, 140, 198-204. https://doi.org/10.1016/j.envres.2015.03.033

Ou L., Chen C., Chen L., Wang H., Yang T., Xie H., Tong Y., Hu D., Zhang W., Wang X. **Low-level prenatal mercury exposure in North China: An exploratory study of anthropometric effects**. Environmental Science & Technology, 2015, 49(11), 6899–6908. https://doi.org/10.1021/es5055868

Sánchez Rodríguez L. H., Flórez-Vargas O., Rodríguez-Villamizar L. A., Vargas Fiallo Y., Stashenko E. E., Ramírez G. **Lack of autoantibody induction by mercury exposure in artisanal gold mining settings in Colombia: Findings and a review of the epidemiology literature.** Journal of Immunotoxicology, 2015, 12(4). https://doi.org/10.3109/1547691X.2014.986591

Daniel Peplow and Sarah Augustine. **Public health programs as surrogates for social action in Suriname, South America**. Public Understanding of Science, 2015, 24(1) 53–68. https://doi.org/10.1177/0963662513513397

2014

Daniel Peplow and Sarah Augustine. **Neurological abnormalities in a mercury exposed population among indigenous Wayana in Southeast Suriname**. Environ. Sci.: Processes Impacts, 2014, 16, 2415-2422. https://doi.org/10.1039/C4EM00268G

Jesús Olivero-Verbel, Fredys Young-Castro, Karina Caballero-Gallardo. **Contaminación por mercurio en aire del distrito minero de San Martín de Loba en el departamento de Bolívar, Colombia**. Rev. Int. Contam. Ambie. 2014, 30 (1) 7-13. ISSN 0188-4999

Correia J., Cesar R., Marsico E., Diniz G. T.N., Zorro M.C., Castilhos Z. **Mercury contamination in alligators (Melanosuchus niger) from Mamirauá Reservoir (Brazilian Amazon) and human health risk assessment**. Environ. Sci. and Pollution Research, 2014, 21, № 23, 13522–13527. https://doi.org/10.1007/s11356-014-3282-0

Khwaja M.A., Abbasi M.S. **Mercury poisoning dentistry: high-level indoor air mercury contamination at selected dental sites**. Reviews on Environmental Health, 2014, 29(1-2), 29–31. https://doi.org/10.1515/reveh-2014-0010

Khwaja M.A., Abbasi M.S., Mehmood F., Jahangir S. **Study of high levels indoor air mercury contamination from mercury amalgam use in dentistry**. Science Technology and Development, 2014, 33(2), 94–106. www.sdpi.org/publications/publication_details-604-50.html

Scheepers, P.T.J., van Ballegooij-Gevers, M., & Jans, H. **Biological monitoring involving children exposed to mercury from a barometer in a private residence**. Toxicology Letters, 2014231(3), 365–373. https://doi.org/10.1016/j.toxlet.2014.03.017

Zhang H., Wang D., Zhang J., Shang X., Zhao Y., Wu Y. **Total mercury in milled rice and brown rice from China and health risk evaluation**. Food Additives & Contaminants: Part B, 2014, 7(2), 141–146. https://doi.org/10.1080/19393210.2013.860485

2013

Carrie A. Dickenson, Tracey J. Woodruff, Naomi E. Stotland, Dina Dobraca, Rupali Das. **Elevated mercury levels in pregnant woman linked to skin cream from Mexico**. American J. Obstetgics & Gynecology, 2013, 209, 2, E4-E5. https://doi.org/10.1016/j.ajog.2013.05.030

Ramírez, C.; Olarte, E.; Téllez, E.; Palma, M. **Validación del método analítico para la determinación de mercurio total en sangre humana por espectrofotometría de absorción atómica Zeeman RA-915+ con el módulo de pirólisis PYRO-915+**. Rev Colomb Quim. 2013. 42(3): 11-16. On-line version ISSN 2357-3791

Cordy P., Veiga M., Crawford B., Garcia O., Gonzalez V., Moraga D., Roeser M., Wip D. **Characterization, mapping, and mitigation of mercury vapour emissions from artisanal mining gold shops**. Environmental Research, 2013, 125, 82-91. https://doi.org/10.1016/j.envres.2012.10.015

Mazer-Amirshahi M., Bleecker M. L., Barrueto Jr F. **Intraperitoneal elemental mercury exposure from a mercury-weighted bougie.** J. Medical Toxicol, 2013, 9, № 3, 270–273. https://doi.org/10.1007/s13181-013-0303-1

Rothenberg S. E., Yu X., Zhang Y. **Prenatal methylmercury exposure through maternal rice ingestion: Insights from a feasibility pilot in Guizhou Province, China**. Environmental Pollution, 2013, 180, 291–298. https://doi.org/10.1016/j.envpol.2013.05.037

Silva I. C. M. D., Campos R. C. D., Meyer A., Asmus C. I. R. F., Davis R. H., Câmara V. D. M. **Mercúrio em clínica odontológica: concentrações semanais no ambiente de trabalho e suas relações com procedimentos dentários em São Gonçalo, Estado do Rio de Janeiro, Brasil (Mercury in dental clinic: weekly concentrations in the workplace and its relations with dental procedures in São Gonçalo, Rio de Janeiro State, Brazil)**. Revista Pan-Amazônica de Saúde, 2013, V. 4, № 4, 49–55 (In Portuguese). https://doi.org/10.5123/S2176-62232013000400006

2012

The Real Cost of Dental Mercury. Concorde East/West Sprl, Brussels, 2012, 59 p. https://mercuryfreedentistry.files.wordpress.com/2016/02/the-real-cost-of-dental-mercury.pdf

Campos R. M., Lacerda R., Fraga R. C., Hayassy A., Rodrigues Filho H. S., Câmara V. D. M. **Mercury contamination in dentistry: the utility of quantitative analysis in environment with amalgam restorative practice.** J. Health Sciences Institute, 2012, 30, № 3, 217–221. (In Portuguese). www.unip.br/comunicacao/publicacoes/ics/edicoes/2012/03_jul-set/V30_n3_2012_p217a221.pdf

Peplow D, Augustine S. **Community-Led Assessment of Risk from Exposure to Mercury by Native Amerindian Wayana in Southeast Suriname**. J Environ Public Health. 2012;2012:674596. https://doi.org/10.1155/2012/674596

Alpert G. D., Herman-Haase H., Roberts M. **A field method for the detection of elemental mercury in sink traps**. J. Chemical Health & Safety, 2012, 19, № 2, 22–26. https://doi.org/10.1016/j.jchas.2011.06.003

Cesar R., Silva M., Colonese J., Bidone E., Egler S., Castilhos Z., Polivanov H. **Influence of the properties of tropical soils in the toxicity and bioavailability of heavy metals in sewage sludge-amended lands**. Environ. Earth Sciences, 2012, 66, № 8, 2281–2292. https://doi.org/10.1007/s12665-011-1449-2

Krisnayanti B. D., Anderson C. W. N., Utomo W. H., Feng X., Handayanto E., Mudarisna N., Ikram H., Khususiah. **Assessment of environmental mercury discharge at a four-year-old artisanal gold mining area on Lombok Island, Indonesia.** J. Environmental Monitoring, 2012, 14, № 10, 2598–2607. https://doi.org/10.1039/C2EM30515A

Lollobrigida de Souza J. P. B., Nozawa S. R., Honda R. T. **Improper waste disposal of silver-mercury amalgam**. Bulletin of Environmental Contamination and Toxicology, 2012, 88, № 5, 797–801. https://doi.org/10.1007/s00128-012-0554-6

Nance P., Patterson J., Willis A., Foronda N., Dourson M. **Human health risks from mercury exposure from broken compact fluorescent lamps (CFLs)**. Regulatory Toxicology and Pharmacology, 2012, 62, № 3, 542–552. https://doi.org/10.1016/j.yrtph.2011.11.008

Thompson M. R. **Mercury contamination review of a residential response**. Professional Safety, 2012, 57. – № 2, 50–58. http://www.asse.org/professionalsafety/search/index3.php?search=1

2011

Jennifer Baeuml, Stephan Bose-O'Reilly, Beate Lettmeiea, Alexandra Maydl, Katalin Messerer, Gabriele Roider, Gustav Drasch, Uwe SiebertInternat. **Applicability of two mobile analysers for mercury in urine in small-scale gold mining areas**. Journal of Hygiene and Environmental Health 215 (2011) 64– 67. https://doi.org/10.1016/j.ijheh.2011.06.005

Sergi Díez, José M. Esbrí, Aurelio Tobias, Pablo Higueras, Alba Martínez-Coronado. **Determinants of exposure to mercury in hair from inhabitants of the largest mercury mine in the world.** Chemosphere 84 (2011) 571–577. https://doi.org/10.1016/j.chemosphere.2011.03.065

Patricio C. Velásquez-López, Marcelo M. Veiga, Bern Klein, Janis A. Shandro, Ken Hall. **Cyanidation of mercury-rich tailings in artisanal and small-scale gold mining: identifying strategies to manage environmental risks in Southern Ecuador**. Journal of Cleaner Production 19 (2011) 1125e1133. https://doi.org/10.1016/j.jclepro.2010.09.008

González-Carrasco V., Velasquez-Lopez P. C., Olivero-Verbel J., Nerlis Pájaro-Castro N. **Air mercury contamination in the gold mining town of Portovelo, Ecuador**. Bulletin of Environmental Contamination and Toxicology, 2011, 87, №, 250–253. https://doi.org/10.1007/s00128-011-0345-5

Deng C., Zhang C., Li L., Li Z., Li N. **Mercury contamination and its potential health effects in a lead–zinc mining area in the karst region of Guangxi, China**. Applied Geochemistry, 2011, 26, 2, 154–159. https://doi.org/10.1016/j.apgeochem.2010.11.013

Li P., Feng X., Qiu G., Wan Q. **Hair can be a good biomarker of occupational exposure to mercury vapor: Simulated experiments and field data analysis**. Sci. Total Environ., 2011, 409, № 20, 4484–4488. https://doi.org/10.1016/j.scitotenv.2011.06.045

2010

Bose-O'Reilly S, McCarty KM, Steckling N, Lettmeier B. **Mercury exposure and children's health**. Current Problems in Pediatric and Adolescent Health Care. 2010, 40(8), 186-215. https://doi.org/10.1016/j.cppeds.2010.07.002.

Bose-O'Reilly S., Drasch G., Beinhoff C., Rodrigues-Filho S., Roider G., Lettmeier B., Maydl A., Maydl S., Siebert U. **Health assessment of artisanal gold miners in Indonesia**. Sci. Total Environment, 2010, 408, № 4, 713–725. https://doi.org/10.1016/j.scitotenv.2009.10.070

Bose-O'Reilly S., Drasch G., Beinhoff C., Tesha A., Drasch K., Roider G., Taylor H., Appleton D., Siebert U. **Health assessment of artisanal gold miners in Tanzania**. Sci. Total Environment, 2010, 408, № 4, 796–805. https://doi.org/10.1016/j.scitotenv.2009.10.051

Zhang, H., Feng, X., Larssen, T., Qiu, G., & Vogt, R. D. **In inland China, rice, rather than fish, is the major pathway for methylmercury exposure**. Environmental health perspectives, 2010, 118(9), 1183-1188. https://doi.org/10.1289/ehp.1001915

2009

Shandro J. A., Veiga M. M., Chouinard R. **Reducing mercury pollution from artisanal gold mining in Munhena, Mozambique**. J. Cleaner Production, 2009, 17, 5, 525–532. https://doi.org/10.1016/j.jclepro.2008.09.005

2008

Guidance for identifying populations at risk from mercury exposure. WHO/UNEP DTIE Chemicals Branch/ 2008. https://www.who.int/foodsafety/publications/risk-mercury-exposure/en/

Bose-O'Reilly S., Lettmeier B., Matteucci Gothe R., Beinhoff Chr., Siebert U., Drasch G. **Mercury as a serious health hazard for children in gold mining areas**. Environmental Research, 2008, 107, № 1, 89–97. https://doi.org/10.1016/j.envres.2008.01.009

Bose-O'Reilly S., Lettmeier B., Roider G., Siebert U., Drasch G. **Mercury in breast milk – A health hazard for infants in gold mining areas**. Internat. J. Hygiene and Environmental Health, 2008, 211, № 5–6, 615–623. https://doi.org/10.1016/j.ijheh.2007.09.015

Ping Li, Xinbin Feng, Guangle Qiu, Lihai Shang, Shaofeng Wang. **Mercury exposure in the population from Wuchuan mercury mining area, Guizhou, China**. Science Total Environ., 2008, 395, 72 – 7 9. https://doi.org/10.1016/j.scitotenv.2008.02.006

K.Nanjid, E. Erdenebaatar, D. Vanya, B. Badrakh, C. Ochir. **Mercury Exposure Assessment in Informal Gold Miners**. Epidemiology, 2008, 19 (6), S244. https://doi.org/10.1097/01.ede.0000340222.86177.ee

Garetano G., Stern A. H., Robson M., Gochfeld M. **Mercury vapor in residential building common areas in communities where mercury is used for cultural purposes versus a reference community**. Sci. Total Environment, 2008, 397, № 1–3, 131–139. https://doi.org/10.1016/j.scitotenv.2008.02.034

Beaulieu H. J., Beaulieu S., Brown C. **Phenyl mercuric acetate (PMA): mercury-bearing flexible gymnasium floors in schools – evaluation of hazards and controlled abatement.** J. Occupational and Environmental Hygiene, 2008, 6, 360–366. https://doi.org/10.1080/15459620802017425

2007

Stone M. E., Cohen M. E., Debban B. A. **Mercury vapor levels in exhaust air from dental vacuum systems**. Dental Materials, 2007, 23, № 5, 527–532. https://doi.org/10.1016/j.dental.2006.03.011

Grover T. L., Vidich Ch., Hennessey J., Freitas J., Mueller M. D. **Mercury exposure assessment: Testing a work practice for cleaning up broken fluorescent bulbs**. Professional Safety, 2007, 12, 39–45. www.asse.org/professional-safety/indexes/2007/

Morrison M. **Exposure assessment of household mercury spills.** J. Chemical Health and Safety, 2007, 14, № 1, 17–21. https://doi.org/10.1016/j.jchas.2006.08.004

Peplow D, Augustine S. **Community-directed risk assessment of mercury exposure from gold mining in Suriname**. Rev Panam Salud Publica. 2007;22(3):202–10. https://doi.org/10.1590/s1020-49892007000800007

IRIS-PAHO-WHO. **Community-directed risk assessment of mercury exposure from gold mining in Suriname**. https://iris.paho.org/handle/10665.2/7781

Burger J., Gochfeld M., Jeitner C., Burke S., Stamm T. **Metal levels in flathead sole (Hippoglossoides elassodon) and great sculpin (Myoxocephalus polyacanthocephalus) from Adak Island, Alaska: Potential risk to predators and fishermen**. Environmental Research, 2007, 103, № 1, 62–69. https://doi.org/10.1016/j.envres.2006.02.005

Burger J., Gochfeld M., Shukla T., Jeitner C., Burke S., Donio M., Shukla S., Snigaroff R., Snigaroff D., Stamm T., Volz C. **Heavy metals in Pacific cod (Gadus macrocephalus) from the Aleutians: location, age, size, and risk**. J. Toxicology and Environmental Health, 2007, 70, № 22, 1897–1911. https://doi.org/10.1080/15287390701551159

Dahlgren J., Takhar H., Anderson-Mahoney P., Kotlerman J., Tarr J., Warshaw R. **Cluster of systemic lupus erythematosus (SLE) associated with an oil field waste site: a cross sectional study**. Environmental Health, 2007, 6, 8–15. https://doi.org/10.1186/1476-069X-6-8

Azziz-Baumgartner E, Luber G, Schurz-Rogers H, Backer L, Belson M, Kieszak S, Caldwell K, Lee B, Jones R, Todd R, Rubin C. **Exposure assessment of a mercury spill in a Nevada school -- 2004**. Clin Toxicol (Phila). 2007, 45(4):391-5. https://doi.org/10.1080/15563650601031569

2006

Baughman Th. A. **Elemental mercury spills**. Environmental Health Perspectives, 2006, 114, № 2, 147-152. https://doi.org/10.1289/ehp.7048

Ru-Jin Huang, Zhi-Xia Zhuang, Yi Tai, Rong-Fu Huang, Xiao-Ru Wang, Frank S.C. Lee. **Direct analysis of mercury in Traditional Chinese Medicines using thermolysis coupled with on-line atomic absorption spectrometry**. Talanta. 2006, 68, 728–734. https://doi.org/10.1016/j.talanta.2005.05.014

Garetano G., Gochfeld M., Stern A. H. **Comparison of indoor mercury vapor in common areas of residential buildings with outdoor levels in a community where mercury is used for cultural purposes.** Environmental Health Perspectives, 2006, 114, № 1, 59–62. https://doi.org/10.1289/ehp.8410

Riley D. M., Newby C. A., Leal-Almeraz T. O. **Incorporating ethnographic methods in multidisciplinary approaches to risk assessment and communication: cultural and religious uses of mercury in Latino and Caribbean communities**. Risk Analysis, 2006, 26, № 5, 1205. https://doi.org/10.1111/j.1539-6924.2006.00809.x

Spiegel S. J., Savornin O., Shoko D., Veiga M. M. **Mercury reduction in Munhena, Mozambique: homemade solutions and the social context for change**. Internat. J. Occupational and Environmental Health, 2006, 12, № 3, 215–221. https://doi.org/10.1179/oeh.2006.12.3.215

Gary Garetano, Michael Gochfeld, and Alan H. Stern. **Comparison of Indoor Mercury Vapor in Common Areas of Residential Buildings with Outdoor Levels in a Community Where Mercury Is Used for Cultural Purposes**. Environmental Health Perspectives, V. 114, №1, 59-62, 2006. https://doi.org/10.1289/ehp.8410

Antonio Garcia-Sanchez, Felicia Contreras, Meliton Adams, Fernando Santos. **Airborne total gaseous mercury and exposure in a Venezuelan mining area**. Int. J Environ. Health Res., 2006, 16(5):361-73. https://doi.org/10.1080/09603120600869315

J. Burger, M. Gochfeld. **Mercury in fish available in supermarkets in Illinois: Are there regional differences**. Sci. Total Environment, 2006, 367(2–3), 1010-1016. https://doi.org/10.1016/j.scitotenv.2006.04.018

2005

Marcello M. Veiga, Dario Bermudez, Heloisa Pacheco-Ferreira, Luiz Roberto Martins Pedroso, Aaron J. Gunson, Gilberto Berrios, Ligia Vos, Pablo Huidobro, Monika Roeser. **Mercury Pollution from Artisanal Gold Mining in Block B, El Callao, Bolívar State, Venezuela**. In: Dynamics of mercury pollution on regional and global scales: Atmospheric processes and human exposures around the world. N. Pirrone &;K. Mahaffey (Eds),2005, 421-450. ISBN: 0-387-24493-X. https://doi.org/10.1007/b105709

Burger J., Stern A. H., Gochfeld M. **Mercury in commercial fish: optimizing individual choices to reduce risk**. Environ. Health Perspectives, 2005. V. 113, 3. 266–271. https://doi.org/10.1289/ehp.7315

Wendroff A. P. **Magico-religious mercury use in Caribbean and Latino communities: pollution, persistence, and politics**. Environ. Practice. 2005. V. 7, 2. 87–96. https://doi.org/10.1017/S146604660505012X

2004

Halbach S., Welzl G. **In-situ measurements of low-level mercury vapor exposure from dental amalgam with Zeeman atomic absorption spectroscopy**. Toxicology Mechanisms and Methods. 2004, V. 14, № 5, 293–299. https://doi.org/10.1080/15376520490434548

Baltarowich L., Boyle B., Smolinske S., White S. R. **Mercury excretion in sweat**. Journal of Toxicology: Clinical Toxicology, 2004, V. 42, 5, p. 825. https://doi.org/10.1081/CLT-200026959

Minoia C., Nucera A., Merlini C., Ronchi A., Gatti A., Angeleri S., Grassi M., Guzzi G. **Estimates of mercury exposure in dental office: environmental and biological monitoring of Hg assessment among dental team.** RMZ – Materials and Geoenvironment. 2004, 51(1), 476–478. www.rmz-mg.com/letniki/rmz51/rmz51_0333-0560.pdf

Bigham G. N. **Assessment of exposure to mercury vapor in indoor air from spilled elemental mercury**. RMZ – Materials and Geoenvironment, 2004, 51(1), 587–589. www.rmz-mg.com/letniki/rmz51/rmz51_0561-0755.pdf

G. Garetano. **Assessment of mercury vapor concentration in residential buildings using real time direct reading instruments**. Epidemiology, 2004, 15(4), 193-194.

2003

Burger J., Dixon C., Boring S. C., Gochfeld M. **Effect of deep-frying fish on risk from mercury**. Journal of Toxicology and Environmental Health, Part A. 2003, 66, № 11, 817–828. https://doi.org/10.1080/15287390306382

G. Guzzi, C. Minoia, P. Pigatto, A. Ronchi, A. Gatti, s. Angeleri, O. Formichi. **Safe dental amalgam removal in patients with immunotoxic reactions to mercury**. Toxicology Letters, V. 144, 1, 2003, s35-s36, ISSN 0378-4274. https://doi.org/10.1016/S0378-4274(03)90121-4

2002

Pogarev, .S., Ryzhov, .V., Mashyanov, .N. et al. **Direct measurement of the mercury content of exhaled air: a new approach for determination of the mercury dose received.** Anal Bioanal Chem 374, 1039–1044 (2002). https://doi.org/10.1007/s00216-002-1601-7

2001

Bin C., Xiaoru W., Lee F.S.C. **Pyrolysis coupled with atomic absorption spectrometry for the determination of mercury in Chinese medicinal materials**. Analytica Chimica Acta, 2001, V. 447, 1–2, 161–169. https://doi.org/10.1016/S0003-2670(01)01218-1

1997

S.E. Pogarev, V.V Ryzhov, N.R. Mashyanov, M.B. Sobolev. **Mercury values in urine from inhabitants of St. Petersburg**. Water Air Soil Pollution, 1997, 97, 193–198. https://doi.org/10.1007/BF02409655

1995

Pogarev S.E., Ryzhov V.V., Dreval T.V., Mashyanov N.R. **Using Zeeman atomic absorption spectrometer for mercury detection in urine**. Journal of Ecological Chemistry, 1995, 4(2), 118–121.

Human Health

2026

Safdar, R. **Quotative assessment of environmental mercury in beauty salons in Twin cities. Lumex analyzer**. Sustainable Development Policy Institute (SDPI), an independent, non-profit research institute working on sustainable development.: July 2026. https://sdpi.org/assets/lib/uploads/Final%20Lumax%20Report%20CLEAN%20%20100826.pdf

Haraguchi, K., Sakamoto, M., Nagasaka, H., Uchida, K., Ito, Y., Horvat, M., ... & Nakamura, M. **Method development and production of an ambient-stable blood certified reference material for total mercury, methylmercury, and trace elements**. Analytica Chimica Acta, 345580, 2026. https://doi:10.1016/j.aca.2026.345580

Monteiro, L. C., Costa, F. J. V., de Carvalho, C. B. V., Júnior, A. S., Duar, B. A., & Bernardi, J. V. E. **Mercury contamination imported shark meat ("cação") and implications for human exposure in Brazil**. Regional Studies in Marine Science, 2026, 105214. https://doi:10.1016/j.rsma.2026.105214

Gonzalez-Valoys, A. C., Segundo, F., Zambrano-Anchundia, J. L., Jiménez-Oyola, S., Gallego, J. R., García-Ordiales, E., ... & Higueras, P. **Assessment of Soil Contaminants and Human Health Risks in the Petaquilla Mine (Panama): Implications for Site Restoration**. Minerals, 2026, 16(5), 522. https://doi:10.3390/min16050522

Floreani, F., Vecchio, A., Guerra, M., Mariani, E., Mulas, G., Covelli, S., Spinelli, L., Virgili, G. **Gaseous mercury fluxes from soils and health risk assessment at a coastal legacy industrial site**. Environmental Pollution, 2026. https://doi:10.1016/j.envpol.2026.128400

Chakraborty, P., Sen, P., Peketi, A., Mishra, S., Chakraborty, P., Kumari, J., ... & Hazra, B. **Source-specific health risks of metallic elements in road dust from coal mining affected urban areas using an integrated PMF–HHR–Monte Carlo framework**. Environmental Geochemistry and Health, 2026, 48(2), 70. https://doi:10.1007/s10653-025-02960-5

Baenguev, B., Belogolova, G., Chuparina, E., Minkina, T., & Kravchenko, E. **Arsenic and heavy metals in reclaimed soils of sulfide-containing waste dumps: contamination levels, spatial distribution, bioavailability, and health risk assessment**. Environmental Research, 2026, 124544. https://doi:10.1016/j.envres.2026.124544

2025

Hotchkiss, G., & Rosenman, K. **Trends in Elevated Blood and Urine Mercury Levels in Michigan, 2006-2023**. Journal of Environmental Health, 2025, 88(3). https://doi:10.70387/001c.145235

Li, P., Du, B., Feng, L., & Feng, X. **Human Health Risks Associated with Rice Consumption**. In Methylmercury Accumulation in Rice, 2025, 42-87. CRC Press. https://doi:10.1201/9781003404941

Ajiboye, O. R., Lawal-Are, A. O., Obiakara-Amaechi, A. I., & Moruf, R. O. **Preliminary Ecological Risk Assessment of Toxic Elements in Fish Cage Culture Sites within the Interconnected Epe and Badagry Lagoons, Nigeria**. Acta Natura et Scientia, 2025, 6(1), 1-11. https://doi:10.61326/actanatsci.v6i1.322

Serik, B., Shinetova, L. E., Efimova, N. V., Bekeyeva, S. A., Abdrakhmanova, B. M., Dauletova, A. O., ... & Tamadon, A. **Mercury exposure, epigenetic modifications, and genetic susceptibility: insights from molecular docking and population analysis**. Frontiers in Public Health, 2025, 13, 1710032. https://doi:10.3389/fpubh.2025.1710032

Galvis-Ballesteros, J., Duran-Izquierdo, M., Valdelamar-Villegas, J., Sierra-Marquez, L., & Olivero-Verbel, J. **Mercury Exposure, Gene Expression, and Intelligence Quotient in Afro-Descendant**

Children from Two Colombian Regions. Toxics, 2025, 13(9), 786. https://doi:10.3390/toxics13090786

2024

Ivanova, E., Rumiantseva, O., Kopylov, D., Elizarova, A., & Komov, V. **Mercury content and the ratio of stable nitrogen isotopes in the hair of residents from industrial city and specially protected natural area of Russia**. Environmental Science and Pollution Research, 2024, 1-12. https://doi:10.1007/s11356-024-35550-6

Aleksina, I.I., Ivanova, E.S. & Komov, V.T. **Dynamics of the total mercury content in the hair of adolescent residents of the industrial center of Northwest Russia (Cherepovets City)**. Environmental Science and Pollution Research, 2024. https://doi:10.1007/s11356-024-35354-8

Acheampong, A., Sarpong, K., Akoto, O., Apau, J., & Darko, G. **Health Risk Assessments of Potentially Toxic Elements in Selected Medicinal Plants from the Ashanti Region of Ghana**. Chemistry Africa, 2024, 1-19. https://doi:10.1007/s42250-024-01076-0

Marrugo-Negrete, J., Paternina-Uribe, R., Enamorado-Montes, G., Herrera-Arango, J., Rosso-Pinto, M., Ospino-Contreras, J., & Pinedo-Hernández, J. **Groundwater quality assessment in the La Mojana region of northern Colombia: implications for consumption, irrigation, and human health risks**. Applied Water Science, 2024, 14(5), 96. https://doi:10.1007/s13201-024-02156-9

Sun, Y., & Yang, C. **Soil Mercury Pollution of Hainan Island, China: Patterns, Influencing Factors, and Health Risks**. Sustainability, 2024, 16(7), 3083. https://doi:10.3390/su16073083

Man, Y., Wang, B., Wang, J., Cai, K., Rinklebe, J., Zhang, L., & Feng, X. **New Insights into MeHg Accumulation in Rice (Oryza sativa L.): Evidence from Cysteine**. Environmental Science & Technology, 2024, 58(13), 5942-5951. https://doi:10.1021/acs.est.3c08385

Li, P., Du, B., Feng, L., & Feng, X. (2024). HUMAN METHYLMERCURY EXPOSURE VIA RICE CONSUMPTION. Methylmercury Accumulation in Rice: Process and Regulation, 42.

Ciani, F., Lattanzi, P., Benvenuti, M., Costagliola, P., Donatelli, A., Gianni, R., ... & Rimondi, V. **Indoor mercury pollution in the herbaria: Risk assessment for workers' health and potential solutions. The studies at the Florence (Italy) herbaria**. In Environmental Geochemistry. Elsevier, 2024, 723-744. https://doi.org/10.1016/B978-0-443-13801-0.00019-0

Rodríguez, R., Garcia-Gonzalez, H., Hernández, Z., & Sanmiquel, L. **Tackling Arsenic and Mercury Contamination: Implications for Sustainable Mining and Occupational Health Risks**. Sustainability, 2024, 16(10), 4027. https://doi.org/10.3390/su16104027

Rumiantseva, O.; Komov, V.; Kutuzov, M.; Zaroual, H.; Mizina, K.; Belova, M.; Nikitin, I.; Stolyarova, A.; Mashin, D.; Vilkova, D. **Hair mercury levels in pregnant women: fish consumption as a determinant of exposure**. Toxics 2024, 12, 366. https://doi.org/10.3390/toxics12050366

Wang, G., Hong, Q., Mei, J., Chen, J., Wu, W., Han, F., ... & Yang, S. **Influence of selenium supplementation on mercury levels in hair of metropolitan residents in China: spatial distribution, impact factors, and antagonism**. Exposure and Health, 2024, 1-16. https://doi.org/10.1007/s12403-024-00630-y

2023

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2023, 45, 3555–3565. https://doi.org/10.1007/s10653-022-01441-3

Fernandez, L. J. W. **Childhood Anemia: Screening Tools, Risk Factors, and Barriers to Treatment in Tumbes, Peru** (Doctoral dissertation, Portland State University). https://digitalcollections.ohsu.edu/record/10013

Rodríguez, R., Garcia-Gonzalez, H., Pastrana, Á., & Hernández, Z. **Health and Safety Protocol for the Management of Building Demolition Waste with High Mercury Contamination**. Buildings, 2023, 13(5), 1310. https://doi.org/10.3390/buildings13051310

Vezzone, M., Cesar, R., Serrano, A., Lourenço, R., Rodrigues, A. P., Castilhos, Z., ... & Polivanov, H. **Mercury Contamination in Sediments and Fish from an Urban Tropical Estuary: Ecological and Human Health Risks**. Water, Air, & Soil Pollution, 2023, 234(2), 72. https://doi.org/10.1007/s11270-023-06089-y

C. Du, Z. Li. **Contamination and health risks of heavy metals in the soil of a historical landfill in northern China**. Chemosphere, 2023, 313, 137349. https://doi.org/10.1016/j.chemosphere.2022.137349

2022

Gochfeld, M. **Needs, approaches, and case studies in human health risk communication**. Risk Analysis, 2022, 42(11). https://doi.org/10.1111/risa.14006

Adam, S. Y., Johnson, R., Owusu, F. W. A., & Anka-Brewoo, G. **Quality and Safety Assessment of Omega-3 Fatty Acids Supplements on the Ghanaian Market**. Chemistry Africa, 2022, 5(4), 841-848. https://doi.org/10.1007/s42250-022-00381-w

Guseva, M.A., & Komov, V.T. **Gender differences in blood parameters (ALT, AST) in people with cardiovascular diseases and their relationship to the level of total mercury in the hair**. Limnology and Freshwater Biology, 2022, 1368-1370. https://doi.org/10.31951/2658-3518-2022-A-3-1368

Feng, Z., Deng, L., Guo, Y., Guo, G., Wang, L., Zhou, G., ... & Liang, T. **The spatial analysis, risk assessment and source identification for mercury in a typical area with multiple pollution sources in southern China**. Environmental Geochemistry and Health, 2022, 1-13. https://doi.org/10.1007/s10653-022-01436-0

Zhou, X., & Zhang, G. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Regions in a China's Typical Agricultural County: Dehui**. Research Square, 2022. https://doi.org/10.21203/rs.3.rs-1473819/v1

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A. et al. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2022, 1-15. https://doi.org/10.1007/s10653-022-01295-9

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2022, 1-11. https://doi.org/10.1007/s10653-022-01441-3

Rumiantseva, O. Y., Ivanova, E. S., & Komov, V. T. **Influence of environmental and social factors on mercury accumulation in the hair of residents of the Northwest Russia.** Limnology and Freshwater Biology, 2022, 1335-1337. https://doi.org/10.31951/2658-3518-2022-A-3-1335

Rodríguez, R., Garcia-Gonzalez, H., & García-Ordiales, E. (2022). **Empirical Model of Gaseous Mercury Emissions for the Analysis of Working Conditions in Outdoor Highly Contaminated Sites**. Sustainability, 2022, 14(21), 13951. https://doi.org/10.3390/su142113951

L. Cegolon, G. Mastrangelo, S. Covelli, E. Petranich, E. Pavoni, F.L. Filon. **Occupational exposure to mercury from cinnabar enriched sand in workers of Grado Beach, Gulf of Trieste (North-eastern**

Italy, upper Adriatic Sea). Marine Pollut Bull., 2022, 184, 114057. https://doi.org/10.1016/j.marpolbul.2022.114057

Gyamfi, O., Wireko-Gyebi, R.S., Ansah, E. et al. **Assessment and Awareness of Health Risks Posed by Mercury in Artisanal Gold Mining in the Ashanti Region of Ghana**. Chemistry Africa, 2022, 5, 1765–1775. https://doi.org/10.1007/s42250-022-00453-x

Xiao, Y.; Zhang, G.; Guo, J.; Zhang, Z.;Wang, H.;Wang, Y.;Wang, Z.; Yuan, H.; Cui, D. **Pollution Characteristics and Risk Assessments of Mercury in Jiutai, a County Region Thriving on Coal Mining in Northeastern China**. Sustainability 2022, 14, 10366. https://doi.org/10.3390/su141610366

Garcia Gonzalez, H., García-Ordiales, E., & Diez, R. R. **Analysis of the airborne mercury and particulate arsenic levels close to an abandoned waste dump and buildings of a mercury mine and the potential risk of atmospheric pollution**. SN Applied Sciences, 2022, 4(3), 1-10. https://doi.org/10.1007/s42452-022-04964-7

Amponsah, I. K., Boakye, A., Orman, E., Armah, F. A., Borquaye, L. S., Adjei, S.,… & Harley, B. K. **Quality Assessment and Chemometric-Assisted FTIR Spectral Analysis of Commercial Powdered Ginger Products on the Ghanaian Market**. Helyion, 2022, 8(3), E09150. https://doi.org/10.1016/j.heliyon.2022.e09150

Keshav, V., Archana, O., Kumari, D., & Reddy, J. (2022). **Bioindicators Helping in Human and Ecological Health**. International Journal of Research and Analytical Reviews, 2022, 9(1), 245-253. E-ISSN 2348-1269

2021

González-Valoys AC, Esbrí JM, Campos JA, Arrocha J, García-Noguero EM, Monteza-Destro T, Martínez E, Jiménez-Ballesta R, Gutiérrez E, Vargas-Lombardo M, Garcia-Ordiales E, García-Giménez R, García-Navarro FJ, Higueras P. **Ecological and Health Risk Assessments of an Abandoned Gold Mine (Remance, Panama): Complex Scenarios Need a Combination of Indices**. Internat. J. Environ. Research and Public Health, 2021, 18(17), 9369. https://doi.org/10.3390/ijerph18179369

Rumiantseva, O., Ivanova, E. & Komov, V. **High variability of mercury content in the hair of Russia Northwest population: the role of the environment and social factors**. Int Arch Occup Environ Health, 2021. https://doi.org/10.1007/s00420-021-01812-w

Spearman, S.; Bartrem, C.; Sharshenova, A.A.; Salymbekova, K.S.; Isirailov, M.B.; Gaynazarov, S.A.; Gilmanov, R.; von Lindern, I.H.; von Braun, M.; Möller, G. **Comparison of X-ray Fluorescence (XRF) and Atomic Absorption Spectrometry (AAS) Results for an Environmental Assessment at a Mercury Site in Kyrgyzstan**. Appl. Sci. 2022, 12, 1943. https://doi.org/10.3390/app12041943

Morton Bermea, O., Castro-Larragoitia, J., Arellano Álvarez, Á.A. et al. **Mercury in Blood of Children Exposed to Historical Residues from Metallurgical Activity**. Exposure and Health, 2021. https://doi.org/10.1007/s12403-021-00382-z

Osorio-Martinez J, Silva LFO, Flores EMM, Nascimento MS, Picoloto RS, Olivero-Verbel J. **Environmental and human health risks associated with exposure to hazardous elements present in urban dust from Barranquilla, Colombian Caribbean**. J Environ Qual., 2021, 50(2), 350-363. https://doi.org/10.1002/jeq2.20200

Poddubnaya, N.Y., Salkina, G.P., Eltsova, L.S., Ivanova, E.S., Oleynikov, A.Yu., Pavlov, D.D., Kryukov, V.Kh.,. Rumyantseva, O.Yu. **Mercury content in the Siberian tiger (Panthera tigris altaica Temminck, 1844) from the coastal and inland areas of the Russia**. Sci Rep 11, 6923, 2021. https://doi.org/10.1038/s41598-021-86411-y

Medina Pérez, O.M., Flórez-Vargas, O., Rincón Cruz, G. et al. **Glutathione-related genetic polymorphisms are associated with mercury retention and nephrotoxicity in gold-mining settings of a Colombian population**. Sci Rep., 2021, 11, 8716. https://doi.org/10.1038/s41598-021-88137-3

Lin Jiang, Ruihuan Zhang, Lina Zhang, Rui Zheng, Maosheng Zhong. **Improving the regulatory health risk assessment of mercury-contaminated sites**. J. Hazardous Materials, 2021, 402, 123493. https://doi.org/10.1016/j.jhazmat.2020.123493

Chuanyu Chang, Runsheng Yin, Fang Huang, Ruirui Wang, Chongying Chen, Kang Mao, Xinbin Feng, Hua Zhang. **A new method of predicting the contribution of TGM to Hg in white rice: Using leaf THg and implications for Hg risk control in Wanshan Hg mine area**. Environmental Pollution, 2021, 288, 117727. https://doi.org/10.1016/j.envpol.2021.117727

González-Valoys, A.C., Jiménez Salgado, J.U., Rodríguez, R. et al. **An approach for evaluating the bioavailability and risk assessment of potentially toxic elements using edible and inedible plants—the Remance (Panama) mining area as a model**. Environ Geochem Health, 2021. https://doi.org/10.1007/s10653-021-01086-8

Opoku Gyamfi, Peter Borgen Sørensen, Godfred Darko, Eugene Ansah, Katrin Vorkamp, Jesper Leth Bak. **Contamination, exposure and risk assessment of mercury in the soils of an artisanal gold mining community in Ghana**. Chemosphere, 2021, 267, 128910. https://doi.org/10.1016/j.chemosphere.2020.128910

2020

K. Haraguchi, M. Sakamoto, A. Matsuyama, M. Yamamoto, D.T. Hung, H. Nagasaka, K. Uchida, Y. Ito, H. Kodamatani, M. Horvat, H.M. Chan, V. Rand, C.M. Cirtiu, B-G. Kim, F. Nielsen, A. Yamakawa, N. Mashyanov, N. Panichev, E. Panova, T. Watanabe, N. Kaneko, J. Yoshinaga, R.F. Herwati, A.E. Suoth, H. Akagi. **Development of Human Hair Reference Material Supporting the Biomonitoring of Methylmercury**. Analytical Sciences, 2020, 36(5), 561. https://doi.org/10.2116/analsci.19SBP07

Luz Helena Sánchez Rodríguez, Olga Marcela Medina Pérez, Fernando Rondón González, Giovanna Rincón Cruz, Linda Rocha Muñoz, Oscar Flórez-Vargas. **Genetic Polymorphisms in Multispecific Transporters Mitigate Mercury Nephrotoxicity in an Artisanal and Small-Scale Gold Mining Community in Colombia**. Toxicological Sciences. 2020, V. 178, 2, 338–346. https://doi.org/10.1093/toxsci/kfaa142

Jicheng Xia, Jianxu Wang, Leiming Zhang, Christopher W.N. Anderson, Xun Wang, Hua Zhang, Zhihui Dai, Xinbin Feng. **Screening of native low mercury accumulation crops in a mercury polluted mining region: Agricultural planning to manage mercury risk in farming communities.** Journal of Cleaner Production 262 (2020) 121324. https://doi.org/10.1016/j.jclepro.2020.121324

Samantha Jiménez-Oyola, María-Jesús García-Martínez, Marcelo F. Ortega, David Bolonio, Clara Rodríguez, José-María Esbrí, Juan F. Llamas, Pablo Higueras. **Multi-pathway human exposure risk assessment using Bayesian modeling at the historically largest mercury mining district**. Ecotoxicology and Environmental Safety 201.2020. 110833. https://doi.org/10.1016/j.ecoenv.2020.110833

Nwon M. Adou-Assoumou, Akpé J Adou, Aline A. Krah-Sinan, Florent K Kouakou, Edmee C Mansilla. **Mercury poisoning within the dental clinic Myth or reality in Côte d'Ivoire**. IP Indian Journal of Conservative and Endodontics 2020, 5(3):105–108. https://doi.org/10.18231/j.ijce.2020.025

Opoku Gyamfi, Peter Borgen Sorenson, Godfred Darko, Eugene Ansah, Jesper Leth Bak. **Human health risk assessment of exposure to indoor mercury vapour in a Ghanaian artisanal small-scale gold mining community**. Chemosphere 241 (2020) 125014. https://doi.org/10.1016/j.chemosphere.2019.125014

Rweyemamu, A.R., Nkansah, M.A., Darko, G. et al. **Contamination and Human Health Risk Due to Toxic Metals in Dust from Transport Stations in the Kumasi Metropolis, Ghana**. Chemistry Africa, 2020, 3, 831–843. https://doi.org/10.1007/s42250-020-00174-z

Du, B., Li, P., Feng, X., Yin, R., Zhou, J., Maurice, L. **Monthly variations in mercury exposure of school children and adults in an industrial area of southwestern China**. Environmental Research, 2020. https://doi.org/10.1016/j.envres.2020.110362.

Alejandra Manjarres-Suarez & Jesus Olivero-Verbel. **Hematological parameters and hair mercury levels in adolescents from the Colombian Caribbean**. Environ Sci Pollut Res., 27, 14216–14227, 2020. https://doi.org/10.1007/s11356-020-07738-z

Iuliia Aleksina, Viktor Komov. **Factors affecting the mercury concentration in the hair of young residents of the Vologda region, Russia**. Heliyon, 2020, V.6, 8. https://doi.org/10.1016/j.heliyon.2020.e04580

Jay Hammerling, Arielle Kanters, Benjamin Jacobs, Alfred Franzblau, Pauline K. Park, Lena M. Napolitano. **An Unusual Cause of Severe Hypoxemia and Acute Respiratory Distress Syndrome**. Chest, 2020, 158, 2. https://doi.org/10.1016/j.chest.2019.11.058

Feng, Z., Xiao, T., Zhang, G., Zhang, L., Cui, Y., & Jiang, Y. **Mercury spatial distribution characteristics and its exposure of the endangered Jankowski's bunting**. Ecological Research, 2020, 1-12. https://doi.org/10.1111/1440-1703.12117

Ferhat Karaca, Aiganym Kumisbek, Vassilis J. Inglezakis, Seitkhan Azat, Almagul Zhakiyenova, Gulden Ormanova, Mert Guney. **DiMIZA: A dispersion modeling based impact zone assessment of mercury (Hg) emissions from coal-fired power plants and risk evaluation for inhalation exposure.** Engineering Reports, 2020, https://doi.org/10.1002/eng2.12357

S.A. Thomas, B. Mishra, S.C.B. Myneni. **Cellular Mercury Coordination Environment, and Not Cell Surface Ligands, Influence Bacterial Methylmercury Production**. Environmental Science & Technology, 2020, 54(7), 3960-3968. https://doi.org/10.1021/acs.est.9b05915

Zhidong Xu, Qinhui Lu, Xiaohang Xu, Xinbin Feng, Longchao Liang, Lin Liu, Chan Li, Zhuo Chen, Guangle Qiu. **Multi-pathway mercury health risk assessment, categorization and prioritization in an abandoned mercury mining area: A pilot study for implementation of the Minamata Convention**. Chemosphere, 2020, 260, 127582, https://doi.org/10.1016/j.chemosphere.2020.127582

2019

National Elemental Mercury Response Guidebook. USEPA, March 2019. https://www.acac.org/forms/otherpdfs/epamercury2019.pdf

Opoku Gyamfi, Peter Borgen Sorenson, Godfred Darko, Eugene Ansah, Jesper Leth Bak. **Human health risk assessment of exposure to indoor mercury vapour in a Ghanaian artisanal small-scale gold mining community**. Chemosphere 241 (2020) 125014. https://doi.org/10.1016/j.chemosphere.2019.125014

Lenn G Gomah, Rafael S Ngumbu, Ray B Voegborlo. **Dietary Exposure to Heavy Metal Contaminated Rice and Health Risk to the Population of Monrovia**. J. Environmental Science and Public Health, 2019, 3, 474-482. https://doi.org/10.26502/jesph.96120077

Carlos Alberto da Silva, Silvia de Oliveira Santos, Carlos Alexandre Borges Garcia, Gabriela Cugler de Pontes & Julio Cesar Wasserman. **Metals and arsenic in marine fish commercialized in the NE Brazil: Risk to human health**. Human and Ecological Risk Assessment, 2019. https://doi.org/10.1080/10807039.2018.1529552

2018

A. Prevodnik, A. Willcox, E. Lymberidi-Settimo, M. Bender, O. Lane. **Mercury Skin-Lightening Creams: Available, Inexpensive and Toxic**. 2018, www.eeb.org / www.zeromercury.org

Wilson E, Lafferty JS, Thiboldeaux R, et al. **Occupational Mercury Exposure at a Fluorescent Lamp Recycling Facility — Wisconsin, 2017**. MMWR Morb Mortal Wkly Rep 2018, 67:763–766. https://doi.org/10.15585/mmwr.mm6727a3externalicon

Ana Paula de Castro Rodrigues, Rodrigo Guerra Carvalheira, Vanessa Gomes, Ana Rosa Linde Arias, Nádia Regina Pereira Almosny, Zuleica Carmen Castilhos, Edison Dausacker Bidone. **Acetylcholinesterase Activity in Fish Exposed to Mercury in Guanabara Bay, RJ, Brazil**. Environmental Pollution and Protection, 2018, 3(4), 91-99. https://doi.org/10.22606/epp.2018.34001

Yuber Palacios-Torres, Karina Caballero-Gallardo, Jesus Olivero-Verbel. **Mercury pollution by gold mining in a global biodiversity hotspot, the Choco biogeographic region, Colombia**. Chemosphere, 2018, 193, 2018, 421-430. https://doi.org/10.1016/j.chemosphere.2017.10.160

Poste, A. E., Pastukhov, M. V., Braaten, H. F. V., Ozersky, T., & Moore, M. **Past and present mercury accumulation in the Lake Baikal seal: Temporal trends, effects of life history, and toxicological implications**. Environmental Toxicology and Chemistry, 2018, 37(5), 1476–1486. https://doi.org/10.1002/etc.4095

2017

Romilda Z. Boerleider, Nel Roeleveld, Paul T.J. Scheepers. **Human biological monitoring of mercury for exposure assessment**. AIMS Environmental Science, 2017, 4 (2): 251-276. https://doi.org/10.3934/environsci.2017.2.251

Sarah E. Rothenberg, Runsheng Yin, James P. Hurley, David P. Krabbenhoft, Yuyun Ismawati, Chuan Hong, and Alexis Donohue. **Stable Mercury Isotopes in Polished Rice (Oryza sativa L.) and Hair from Rice Consumers**. Environ. Sci. Technol. 2017, 51, 11, 6480–6488. https://doi.org/10.1021/acs.est.7b01039

Berdonces M. A. L., Higueras P. L., Fernández-Pascual M., Borreguero A. M., Carmona M. **The role of native lichens in the biomonitoring of gaseous mercury at contaminated sites**. J. Environmental Management. 2017. V. 186, 2. 207–213. https://doi.org/10.1016/j.jenvman.2016.04.047

Rodríguez L. H. S., Rodríguez-Villamizar L. A., Flórez-Vargas O., Fiallo, Y. V., Ordoñez Á., del Carmen Gutiérrez M. **No effect of mercury exposure on kidney function during ongoing artisanal gold mining activities in Colombia: A cross-sectional study**. Toxicology and Industrial Health. 2017. V. 33, 1. 67–78. https://doi.org/10.1177/0748233716659031

Loto AO, Oyapero A, Awotile AO, Adenuga-Taiwo A O, Enone LL, Menakaya IN. **Managing amalgam phase down: An evaluation of mercury vapor levels in a dental center in Lagos, Nigeria**. J Dent Res Rev 2017;4:4-8. https://doi.org/10.4103/jdrr.jdrr_20_17

S. Bose-O'Reilly, L. Bernaudat, U. Siebert, G. Roider, D. Nowak, G. Drasch. **Signs and symptoms of mercury-exposed gold miners**. Internat. J. Occupational Medicine and Environmental Health, 2017, 30(2), 249–269. https://doi.org/10.13075/ijomeh.1896.00715

P. Schutzmeier, U. Berger, S. Bose-O'Reilly. **Gold Mining in Ecuador: A Cross-Sectional Assessment of Mercury in Urine and Medical Symptoms in Miners from Portovelo/Zaruma**. Int. J. Environ. Res. Public Health 2017, 14(1), 34. https://doi.org/10.3390/ijerph14010034

Panichev N.A., Panicheva S.E. **Concentration of Total Mercury in Convenience Fish Products and Cooked Fish**. Oceanography & Fisheries Open Access Journal, 2017, 3(1), 29-31. https://doi.org/10.19080/OFOAJ.2017.03.555604

2016

Bose-O'Reilly S., Schierl R., Nowak D., Siebert U., William J. F., Owi F.T., Ir Y.I. **A preliminary study on health effects in villagers exposed to mercury in a small-scale artisanal gold mining area in Indonesia**. Environ. Research. 2016. V. 149. 274–281. https://doi.org/10.1016/j.envres.2016.04.007

Buch A. C., Niemeyer J. C., Correia M. E. F., Vieira Silva-Filho E. **Ecotoxicity of mercury to Folsomia candida and Proisotoma minuta (Collembola: Isotomidae) in tropical soils: Baseline for ecological risk assessment**. Ecotoxicology and Environmental Safety. 2016. V. 127. 22–29. https://doi.org/10.1016/j.ecoenv.2016.01.009

Deng C., Xie H., Ye X., Zhang H., Liu M., Tong Y., Ou L., Yuan W., Wang X. **Mercury risk assessment combining internal and external exposure methods for a population living near a municipal solid waste incinerator**. Environmental Pollution. 2016. V. 219. 1060–1068. https://doi.org/10.1016/j.envpol.2016.09.006

Buyun Du, Ping Li, Xinbin Feng, Guangle Qiu, Jun Zhou and Laurence Maurice. **Mercury Exposure in Children of the Wanshan Mercury Mining Area, Guizhou, China**. Int. J. Environ. Res. Public Health 2016, 13, 1107. https://doi.org/10.3390/ijerph13111107

Doering S, Bose-O'Reilly S, Berger U. **Essential Indicators Identifying Chronic Inorganic Mercury Intoxication: Pooled Analysis across Multiple Cross-Sectional Studies**. PLoS ONE, 2016, 11(8): e0160323. https://doi.org/10.1371/journal.pone.0160323

Grzegorz Majewski, Karolina Kociszewska, Wioletta Rogula-Kozłowska, et.al. **Submicron Particle-Bound Mercury in University Teaching Rooms: A Summer Study from Two Polish Cities**. Atmosphere, 2016, 7(9), 117. https://doi.org/10.3390/atmos7090117

N.A. Panichev, S.E. Panicheva. **Influence of Different Cooking Procedure on the Hg Concentration in Fish**. J Fisheriessciences.com, 2016, 10(1), 63-69.

2015

Bourdineaud, JP., Durrieu, G., Sarrazin, S.L.F. et al. **Mercurial exposure of residents of Santarém and Oriximiná cities (Pará, Brazil) through fish consumption**. Environ Sci Pollut Res 2015, 22, 12150–12161. https://doi.org/10.1007/s11356-015-4502-y

Ardiana Ekawanti, Baiq Dewi Krisnayanti. **Effect of Mercury Exposure on Renal Function and Hematological Parameters among Artisanal and Small-scale Gold Miners at Sekotong, West Lombok, Indonesia**. Journal of Health and Pollution, 2015, 5 (9): 25–32. https://doi.org/10.5696/2156-9614-5-9.25

Ping Li, Xinbin Feng, Hing-Man Chan, Xiaofeng Zhang, and Buyun Du. **Human Body Burden and Dietary Methylmercury Intake: The Relationship in a Rice-Consuming Population**. Environ. Sci. Technol. 2015, 49, 9682−9689. https://doi.org/10.1021/acs.est.5b00195

Copan, L.; Fowles, J.; Barreau, T.; McGee, N. **Mercury Toxicity and Contamination of Households from the Use of Skin Creams Adulterated with Mercurous Chloride (Calomel)**. Int. J. Environ. Res. Public Health, 2015, 12, 10943-10954. https://doi.org/10.3390/ijerph120910943

Hagan, N., Robins, N., Hsu-Kim, H. et al. **Mercury hair levels and factors that influence exposure for residents of Huancavelica, Peru**. Environ Geochem Health, 2015, 37, 507–514. https://doi.org/10.1007/s10653-014-9665-9

Cordy, P., Veiga, M., Bernaudat, L., & Garcia, O. **Successful airborne mercury reductions in Colombia**. Journal of Cleaner Production, 2015, 108, 992–1001. https://doi.org/10.1016/j.jclepro.2015.06.102

Hagan N., Robins N., Gonzales R. D. E., Hsu-Kim H. **Speciation and bioaccessibility of mercury in adobe bricks and dirt floors in Huancavelica, Peru**. Environmental Geochemistry and Health, 2015, 37(2). 263–272. https://doi.org/10.1007/s10653-014-9644-1

Li P., Du B., Chan H. M., Feng X. **Human inorganic mercury exposure, renal effects and possible pathways in Wanshan mercury mining area, China**. Environmental Research, 2015, 140, 198-204. https://doi.org/10.1016/j.envres.2015.03.033

Ou L., Chen C., Chen L., Wang H., Yang T., Xie H., Tong Y., Hu D., Zhang W., Wang X. **Low-level prenatal mercury exposure in North China: An exploratory study of anthropometric effects**. Environmental Science & Technology, 2015, 49(11), 6899–6908. https://doi.org/10.1021/es5055868

Sánchez Rodríguez L. H., Flórez-Vargas O., Rodríguez-Villamizar L. A., Vargas Fiallo Y., Stashenko E. E., Ramírez G. **Lack of autoantibody induction by mercury exposure in artisanal gold mining settings in Colombia: Findings and a review of the epidemiology literature.** Journal of Immunotoxicology, 2015, 12(4). https://doi.org/10.3109/1547691X.2014.986591

Daniel Peplow and Sarah Augustine. **Public health programs as surrogates for social action in Suriname, South America**. Public Understanding of Science, 2015, 24(1) 53–68. https://doi.org/10.1177/0963662513513397

2014

Daniel Peplow and Sarah Augustine. **Neurological abnormalities in a mercury exposed population among indigenous Wayana in Southeast Suriname**. Environ. Sci.: Processes Impacts, 2014, 16, 2415-2422. https://doi.org/10.1039/C4EM00268G

Jesús Olivero-Verbel, Fredys Young-Castro, Karina Caballero-Gallardo. **Contaminación por mercurio en aire del distrito minero de San Martín de Loba en el departamento de Bolívar, Colombia**. Rev. Int. Contam. Ambie. 2014, 30 (1) 7-13. ISSN 0188-4999

Braaten H. F. V., Fjeld E., Rognerud S., Lund E., Larssen T. **Seasonal and year-to-year variation of mercury concentration in perch (Perca fluviatilis) in boreal lakes**. Environmental Toxicology and Chemistry, 2014, 33, № 12, 2661–2670. https://doi.org/10.1002/etc.2733

Correia J., Cesar R., Marsico E., Diniz G. T.N., Zorro M.C., Castilhos Z. **Mercury contamination in alligators (Melanosuchus niger) from Mamirauá Reservoir (Brazilian Amazon) and human health risk assessment**. Environ. Sci. and Pollution Research, 2014, 21, № 23, 13522–13527. https://doi.org/10.1007/s11356-014-3282-0

Cesar, R., Natal-da-Luz, T., Sousa, J. P., Colonese, J., Bidone, E., Castilhos, Z., Polivanov, H. **Disposal of dredged sediments in tropical soils: ecotoxicological effects on earthworms**. Environmental Monitoring and Assessment, 2014, 186(3), 1487–1497. https://doi.org/10.1007/s10661-013-3468-9

Khwaja M.A., Abbasi M.S. **Mercury poisoning dentistry: high-level indoor air mercury contamination at selected dental sites**. Reviews on Environmental Health, 2014, 29(1-2), 29–31. https://doi.org/10.1515/reveh-2014-0010

Khwaja M.A., Abbasi M.S., Mehmood F., Jahangir S. **Study of high levels indoor air mercury contamination from mercury amalgam use in dentistry**. Science Technology and Development, 2014, 33(2), 94–106. www.sdpi.org/publications/publication_details-604-50.html

Scheepers, P.T.J., van Ballegooij-Gevers, M., & Jans, H. **Biological monitoring involving children exposed to mercury from a barometer in a private residence**. Toxicology Letters, 2014231(3), 365–373. https://doi.org/10.1016/j.toxlet.2014.03.017

Zhang H., Wang D., Zhang J., Shang X., Zhao Y., Wu Y. **Total mercury in milled rice and brown rice from China and health risk evaluation**. Food Additives & Contaminants: Part B, 2014, 7(2), 141–146. https://doi.org/10.1080/19393210.2013.860485

2013

Carrie A. Dickenson, Tracey J. Woodruff, Naomi E. Stotland, Dina Dobraca, Rupali Das. **Elevated mercury levels in pregnant woman linked to skin cream from Mexico**. American J. Obstetgics & Gynecology, 2013, 209, 2, E4-E5. https://doi.org/10.1016/j.ajog.2013.05.030

Ramírez, C.; Olarte, E.; Téllez, E.; Palma, M. **Validación del método analítico para la determinación de mercurio total en sangre humana por espectrofotometría de absorción atómica Zeeman RA-915+ con el módulo de pirólisis PYRO-915+**. Rev Colomb Quim. 2013. 42(3): 11-16. On-line version ISSN 2357-3791

Cordy P., Veiga M., Crawford B., Garcia O., Gonzalez V., Moraga D., Roeser M., Wip D. **Characterization, mapping, and mitigation of mercury vapour emissions from artisanal mining gold shops**. Environmental Research, 2013, 125, 82-91. https://doi.org/10.1016/j.envres.2012.10.015

Hu H., Lin H., Zheng W., Rao B., Feng X., Liang L., Elias D. A., Gu B. **Mercury reduction and cell-surface adsorption by Geobacter sulfurreducens PCA**. Environ. Sci. Technol. 2013, 47, 19, 10922–10930. https://doi.org/10.1021/es400527m

Mazer-Amirshahi M., Bleecker M. L., Barrueto Jr F. **Intraperitoneal elemental mercury exposure from a mercury-weighted bougie.** J. Medical Toxicol, 2013, 9, № 3, 270–273. https://doi.org/10.1007/s13181-013-0303-1

Rothenberg S. E., Yu X., Zhang Y. **Prenatal methylmercury exposure through maternal rice ingestion: Insights from a feasibility pilot in Guizhou Province, China**. Environmental Pollution, 2013, 180, 291–298. https://doi.org/10.1016/j.envpol.2013.05.037

Silva I. C. M. D., Campos R. C. D., Meyer A., Asmus C. I. R. F., Davis R. H., Câmara V. D. M. **Mercúrio em clínica odontológica: concentrações semanais no ambiente de trabalho e suas relações com procedimentos dentários em São Gonçalo, Estado do Rio de Janeiro, Brasil (Mercury in dental clinic: weekly concentrations in the workplace and its relations with dental procedures in São Gonçalo, Rio de Janeiro State, Brazil)**. Revista Pan-Amazônica de Saúde, 2013, V. 4, № 4, 49–55 (In Portuguese). https://doi.org/10.5123/S2176-62232013000400006

2012

The Real Cost of Dental Mercury. Concorde East/West Sprl, Brussels, 2012, 59 p. https://mercuryfreedentistry.files.wordpress.com/2016/02/the-real-cost-of-dental-mercury.pdf

Campos R. M., Lacerda R., Fraga R. C., Hayassy A., Rodrigues Filho H. S., Câmara V. D. M. **Mercury contamination in dentistry: the utility of quantitative analysis in environment with amalgam restorative practice.** J. Health Sciences Institute, 2012, 30, № 3, 217–221. (In Portuguese). www.unip.br/comunicacao/publicacoes/ics/edicoes/2012/03_jul-set/V30_n3_2012_p217a221.pdf

Peplow D, Augustine S. **Community-Led Assessment of Risk from Exposure to Mercury by Native Amerindian Wayana in Southeast Suriname**. J Environ Public Health. 2012;2012:674596. https://doi.org/10.1155/2012/674596

Alpert G. D., Herman-Haase H., Roberts M. **A field method for the detection of elemental mercury in sink traps**. J. Chemical Health & Safety, 2012, 19, № 2, 22–26. https://doi.org/10.1016/j.jchas.2011.06.003

Cesar R., Silva M., Colonese J., Bidone E., Egler S., Castilhos Z., Polivanov H. **Influence of the properties of tropical soils in the toxicity and bioavailability of heavy metals in sewage sludge-**

amended lands. Environ. Earth Sciences, 2012, 66, № 8, 2281–2292. https://doi.org/10.1007/s12665-011-1449-2

Krisnayanti B. D., Anderson C. W. N., Utomo W. H., Feng X., Handayanto E., Mudarisna N., Ikram H., Khususiah. **Assessment of environmental mercury discharge at a four-year-old artisanal gold mining area on Lombok Island, Indonesia.** J. Environmental Monitoring, 2012, 14, № 10, 2598–2607. https://doi.org/10.1039/C2EM30515A

Lollobrigida de Souza J. P. B., Nozawa S. R., Honda R. T. **Improper waste disposal of silver-mercury amalgam**. Bulletin of Environmental Contamination and Toxicology, 2012, 88, № 5, 797–801. https://doi.org/10.1007/s00128-012-0554-6

Nance P., Patterson J., Willis A., Foronda N., Dourson M. **Human health risks from mercury exposure from broken compact fluorescent lamps (CFLs)**. Regulatory Toxicology and Pharmacology, 2012, 62, № 3, 542–552. https://doi.org/10.1016/j.yrtph.2011.11.008

Thompson M. R. **Mercury contamination review of a residential response**. Professional Safety, 2012, 57. – № 2, 50–58. http://www.asse.org/professionalsafety/search/index3.php?search=1

2011

Jennifer Baeuml, Stephan Bose-O'Reilly, Beate Lettmeiea, Alexandra Maydl, Katalin Messerer, Gabriele Roider, Gustav Drasch, Uwe SiebertInternat. **Applicability of two mobile analysers for mercury in urine in small-scale gold mining areas**. Journal of Hygiene and Environmental Health 215 (2011) 64– 67. https://doi.org/10.1016/j.ijheh.2011.06.005

Sergi Díez, José M. Esbrí, Aurelio Tobias, Pablo Higueras, Alba Martínez-Coronado. **Determinants of exposure to mercury in hair from inhabitants of the largest mercury mine in the world.** Chemosphere 84 (2011) 571–577. https://doi.org/10.1016/j.chemosphere.2011.03.065

Patricio C. Velásquez-López, Marcelo M. Veiga, Bern Klein, Janis A. Shandro, Ken Hall. **Cyanidation of mercury-rich tailings in artisanal and small-scale gold mining: identifying strategies to manage environmental risks in Southern Ecuador**. Journal of Cleaner Production 19 (2011) 1125e1133. https://doi.org/10.1016/j.jclepro.2010.09.008

González-Carrasco V., Velasquez-Lopez P. C., Olivero-Verbel J., Nerlis Pájaro-Castro N. **Air mercury contamination in the gold mining town of Portovelo, Ecuador**. Bulletin of Environmental Contamination and Toxicology, 2011, 87, №, 250–253. https://doi.org/10.1007/s00128-011-0345-5

Deng C., Zhang C., Li L., Li Z., Li N. **Mercury contamination and its potential health effects in a lead–zinc mining area in the karst region of Guangxi, China**. Applied Geochemistry, 2011, 26, 2, 154–159. https://doi.org/10.1016/j.apgeochem.2010.11.013

Li P., Feng X., Qiu G., Wan Q. **Hair can be a good biomarker of occupational exposure to mercury vapor: Simulated experiments and field data analysis**. Sci. Total Environ., 2011, 409, № 20, 4484–4488. https://doi.org/10.1016/j.scitotenv.2011.06.045

2010

Bose-O'Reilly S, McCarty KM, Steckling N, Lettmeier B. **Mercury exposure and children's health**. Current Problems in Pediatric and Adolescent Health Care. 2010, 40(8), 186-215. https://doi.org/10.1016/j.cppeds.2010.07.002.

Bose-O'Reilly S., Drasch G., Beinhoff C., Rodrigues-Filho S., Roider G., Lettmeier B., Maydl A., Maydl S., Siebert U. **Health assessment of artisanal gold miners in Indonesia**. Sci. Total Environment, 2010, 408, № 4, 713–725. https://doi.org/10.1016/j.scitotenv.2009.10.070

Bose-O'Reilly S., Drasch G., Beinhoff C., Tesha A., Drasch K., Roider G., Taylor H., Appleton D., Siebert U. **Health assessment of artisanal gold miners in Tanzania**. Sci. Total Environment, 2010, 408, № 4, 796–805. https://doi.org/10.1016/j.scitotenv.2009.10.051

Alam M. A., Gomes A., Sarkar S. K., Shuvaeva O. V., Vishnevetskaya N. S., Gustaytis M. A., Bhattacharya B. D., Godhantaraman N. **Trace metal bioaccumulation by soft-bottom Polychaetes (Annelida) of Sundarban mangrove wetland, India and their potential use as contamination indicator**. Bulletin of Environmental Contamination and Toxicology, 2010, 85 (5), 492–496. https://doi.org/10.1007/s00128-010-0110-1

2009

Shandro J. A., Veiga M. M., Chouinard R. **Reducing mercury pollution from artisanal gold mining in Munhena, Mozambique**. J. Cleaner Production, 2009, 17, 5, 525–532. https://doi.org/10.1016/j.jclepro.2008.09.005

2008

Guidance for identifying populations at risk from mercury exposure. WHO/UNEP DTIE Chemicals Branch/ 2008. https://www.who.int/foodsafety/publications/risk-mercury-exposure/en/

Bose-O'Reilly S., Lettmeier B., Matteucci Gothe R., Beinhoff Chr., Siebert U., Drasch G. **Mercury as a serious health hazard for children in gold mining areas**. Environmental Research, 2008, 107, № 1, 89–97. https://doi.org/10.1016/j.envres.2008.01.009

Bose-O'Reilly S., Lettmeier B., Roider G., Siebert U., Drasch G. **Mercury in breast milk – A health hazard for infants in gold mining areas**. Internat. J. Hygiene and Environmental Health, 2008, 211, № 5–6, 615–623. https://doi.org/10.1016/j.ijheh.2007.09.015

Ping Li, Xinbin Feng, Guangle Qiu, Lihai Shang, Shaofeng Wang. **Mercury exposure in the population from Wuchuan mercury mining area, Guizhou, China**. Science Total Environ., 2008, 395, 72 – 7 9. https://doi.org/10.1016/j.scitotenv.2008.02.006

K.Nanjid, E. Erdenebaatar, D. Vanya, B. Badrakh, C. Ochir. **Mercury Exposure Assessment in Informal Gold Miners**. Epidemiology, 2008, 19 (6), S244. https://doi.org/10.1097/01.ede.0000340222.86177.ee

Garetano G., Stern A. H., Robson M., Gochfeld M. **Mercury vapor in residential building common areas in communities where mercury is used for cultural purposes versus a reference community**. Sci. Total Environment, 2008, 397, № 1–3, 131–139. https://doi.org/10.1016/j.scitotenv.2008.02.034

Beaulieu H. J., Beaulieu S., Brown C. **Phenyl mercuric acetate (PMA): mercury-bearing flexible gymnasium floors in schools – evaluation of hazards and controlled abatement.** J. Occupational and Environmental Hygiene, 2008, 6, 360–366. https://doi.org/10.1080/15459620802017425

2007

Stone M. E., Cohen M. E., Debban B. A. **Mercury vapor levels in exhaust air from dental vacuum systems**. Dental Materials, 2007, 23, № 5, 527–532. https://doi.org/10.1016/j.dental.2006.03.011

Grover T. L., Vidich Ch., Hennessey J., Freitas J., Mueller M. D. **Mercury exposure assessment: Testing a work practice for cleaning up broken fluorescent bulbs**. Professional Safety, 2007, 12, 39–45. www.asse.org/professional-safety/indexes/2007/

Morrison M. **Exposure assessment of household mercury spills.** J. Chemical Health and Safety, 2007, 14, № 1, 17–21. https://doi.org/10.1016/j.jchas.2006.08.004

Peplow D, Augustine S. **Community-directed risk assessment of mercury exposure from gold mining in Suriname**. Rev Panam Salud Publica. 2007;22(3):202–10. https://doi.org/10.1590/s1020-49892007000800007

IRIS-PAHO-WHO. **Community-directed risk assessment of mercury exposure from gold mining in Suriname**. https://iris.paho.org/handle/10665.2/7781

Burger J., Gochfeld M., Jeitner C., Burke S., Stamm T. **Metal levels in flathead sole (Hippoglossoides elassodon) and great sculpin (Myoxocephalus polyacanthocephalus) from Adak Island, Alaska: Potential risk to predators and fishermen**. Environmental Research, 2007, 103, № 1, 62–69. https://doi.org/10.1016/j.envres.2006.02.005

Burger J., Gochfeld M., Shukla T., Jeitner C., Burke S., Donio M., Shukla S., Snigaroff R., Snigaroff D., Stamm T., Volz C. **Heavy metals in Pacific cod (Gadus macrocephalus) from the Aleutians: location, age, size, and risk**. J. Toxicology and Environmental Health, 2007, 70, № 22, 1897–1911. https://doi.org/10.1080/15287390701551159

Dahlgren J., Takhar H., Anderson-Mahoney P., Kotlerman J., Tarr J., Warshaw R. **Cluster of systemic lupus erythematosus (SLE) associated with an oil field waste site: a cross sectional study**. Environmental Health, 2007, 6, 8–15. https://doi.org/10.1186/1476-069X-6-8

2006

Baughman Th. A. **Elemental mercury spills**. Environmental Health Perspectives, 2006, 114, № 2, 147-152. https://doi.org/10.1289/ehp.7048

Ru-Jin Huang, Zhi-Xia Zhuang, Yi Tai, Rong-Fu Huang, Xiao-Ru Wang, Frank S.C. Lee. **Direct analysis of mercury in Traditional Chinese Medicines using thermolysis coupled with on-line atomic absorption spectrometry**. Talanta. 2006, 68, 728–734. https://doi.org/10.1016/j.talanta.2005.05.014

Garetano G., Gochfeld M., Stern A. H. **Comparison of indoor mercury vapor in common areas of residential buildings with outdoor levels in a community where mercury is used for cultural purposes.** Environmental Health Perspectives, 2006, 114, № 1, 59–62. https://doi.org/10.1289/ehp.8410

Riley D. M., Newby C. A., Leal-Almeraz T. O. **Incorporating ethnographic methods in multidisciplinary approaches to risk assessment and communication: cultural and religious uses of mercury in Latino and Caribbean communities**. Risk Analysis, 2006, 26, № 5, 1205. https://doi.org/10.1111/j.1539-6924.2006.00809.x

Spiegel S. J., Savornin O., Shoko D., Veiga M. M. **Mercury reduction in Munhena, Mozambique: homemade solutions and the social context for change**. Internat. J. Occupational and Environmental Health, 2006, 12, № 3, 215–221. https://doi.org/10.1179/oeh.2006.12.3.215

Ru-Jin Huang, Zhi-Xia Zhuang, Yi Tai, Rong-Fu Huang, Xiao-Ru Wang, Frank S.C. Lee. **Direct analysis of mercury in Traditional Chinese Medicines using thermolysis coupled with on-line atomic absorption spectrometry**. Talanta. 2006, 68, 728–734. https://doi.org/10.1016/j.talanta.2005.05.014

Gary Garetano, Michael Gochfeld, and Alan H. Stern. **Comparison of Indoor Mercury Vapor in Common Areas of Residential Buildings with Outdoor Levels in a Community Where Mercury Is Used for Cultural Purposes**. Environmental Health Persp ectives, V. 114, №1, 59-62, 2006. https://doi.org/10.1289/ehp.8410

Antonio Garcia-Sanchez, Felicia Contreras, Meliton Adams, Fernando Santos. **Airborne total gaseous mercury and exposure in a Venezuelan mining area**. Int. J Environ. Health Res., 2006, 16(5):361-73. https://doi.org/10.1080/09603120600869315

J. Burger, M. Gochfeld. **Mercury in fish available in supermarkets in Illinois: Are there regional differences**. Sci. Total Environment, 2006, 367(2–3), 1010-1016. https://doi.org/10.1016/j.scitotenv.2006.04.018

2005

Marcello M. Veiga, Dario Bermudez, Heloisa Pacheco-Ferreira, Luiz Roberto Martins Pedroso, Aaron J. Gunson, Gilberto Berrios, Ligia Vos, Pablo Huidobro, Monika Roeser. **Mercury Pollution from Artisanal Gold Mining in Block B, El Callao, Bolívar State, Venezuela**. In: Dynamics of mercury pollution on regional and global scales: Atmospheric processes and human exposures around the world. N. Pirrone &;K. Mahaffey (Eds),2005, 421-450. ISBN: 0-387-24493-X. https://doi.org/10.1007/b105709

Burger J., Stern A. H., Gochfeld M. **Mercury in commercial fish: optimizing individual choices to reduce risk**. Environ. Health Perspectives, 2005. V. 113, 3. 266–271. https://doi.org/10.1289/ehp.7315

Huang R.-J., Zhuang Z.-X., Wang Y.-R., Huang Z.-Y., Wang X.-R., C. Lee F.S. **An analytical study of bioaccumulation and the binding forms of mercury in rat body using thermolysis coupled with atomic absorption spectrometry**. Analytica Chimica Acta. 2005, V. 538, 1–2. 313–321. https://doi.org/10.1016/j.aca.2005.01.048

Wendroff A. P. **Magico-religious mercury use in Caribbean and Latino communities: pollution, persistence, and politics**. Environ. Practice. 2005. V. 7, 2. 87–96. https://doi.org/10.1017/S146604660505012X

2004

Halbach S., Welzl G. **In-situ measurements of low-level mercury vapor exposure from dental amalgam with Zeeman atomic absorption spectroscopy**. Toxicology Mechanisms and Methods. 2004, V. 14, № 5, 293–299. https://doi.org/10.1080/15376520490434548

Baltarowich L., Boyle B., Smolinske S., White S. R. **Mercury excretion in sweat**. Journal of Toxicology: Clinical Toxicology, 2004, V. 42, 5, p. 825. https://doi.org/10.1081/CLT-200026959

Minoia C., Nucera A., Merlini C., Ronchi A., Gatti A., Angeleri S., Grassi M., Guzzi G. **Estimates of mercury exposure in dental office: environmental and biological monitoring of Hg assessment among dental team.** RMZ – Materials and Geoenvironment. 2004, V. 51, № 1, 476–478. www.rmz-mg.com/letniki/rmz51/rmz51_0333-0560.pdf

Bigham G. N. **Assessment of exposure to mercury vapor in indoor air from spilled elemental mercury**. RMZ – Materials and Geoenvironment, 2004. – V. 51 № 1, 587–589. www.rmz-mg.com/letniki/rmz51/rmz51_0561-0755.pdf

G. Garetano. **Assessment of mercury vapor concentration in residential buildings using real time direct reading instruments**. Epidemiology, 2004, 15(4), 193-194.

2003

Burger J., Dixon C., Boring S. C., Gochfeld M. **Effect of deep-frying fish on risk from mercury**. Journal of Toxicology and Environmental Health, Part A. 2003, 66, № 11, 817–828. https://doi.org/10.1080/15287390306382

G. Guzzi, C. Minoia, P. Pigatto, A. Ronchi, A. Gatti, s. Angeleri, O. Formichi. **Safe dental amalgam removal in patients with immunotoxic reactions to mercury**. Toxicology Letters, V. 144, 1, 2003, s35-s36, ISSN 0378-4274. https://doi.org/10.1016/S0378-4274(03)90121-4

2002

Pogarev, .S., Ryzhov, .V., Mashyanov, .N. et al. **Direct measurement of the mercury content of exhaled air: a new approach for determination of the mercury dose received.** Anal Bioanal Chem 374, 1039–1044 (2002). https://doi.org/10.1007/s00216-002-1601-7

2001

Bin C., Xiaoru W., Lee F.S.C. **Pyrolysis coupled with atomic absorption spectrometry for the determination of mercury in Chinese medicinal materials**. Analytica Chimica Acta, 2001, V. 447, 1–2, 161–169. https://doi.org/10.1016/S0003-2670(01)01218-1

1997

S.E. Pogarev, V.V Ryzhov, N.R. Mashyanov, M.B. Sobolev. **Mercury values in urine from inhabitants of St. Petersburg**. Water Air Soil Pollution, 1997, 97, 193–198. https://doi.org/10.1007/BF02409655

1995

Pogarev S.E., Ryzhov V.V., Dreval T.V., Mashyanov N.R. **Using Zeeman atomic absorption spectrometer for mercury detection in urine**. Journal of Ecological Chemistry, 1995, 4(2), 118–121.

Industrial Applications

2026

Chen, Y., Hao, K., Sun, H., Xu, F., Deng, S., Yang, J., & Liu, T. **Influence of impurity gases (H_2O and H_2S) on the synergistic removal process of COS and Hg0 in natural gas**. Journal of Environmental Chemical Engineering, 2026, 122277. https://doi:10.1016/j.jece.2026.122277

Chen, J., Liu, W., Zhang, M., Qin, R., Yang, J., Leng, L., ... & Li, H. **Dry distillation characteristics of deactivated mercury chloride catalyst: Thermal behaviors, kinetics analysis, evolution of volatiles, and transformation of elements**. Journal of Environmental Chemical Engineering, 2026, 122202. https://doi:10.1016/j.jece.2026.122202

2025

Chen, J., Liu, W., Zheng, W., Zhang, M., Leng, L., Yang, Z., ... & Li, H. **Study on the deactivation mechanism of mercury chloride catalyst employed for polyvinyl chloride production**. Chinese Journal of Chemical Engineering, 2025. https://doi:10.1016/j.cjche.2025.10.006

Wang, M., Fan, Y., Hong, Q., Huang, W., Han, X., Qu, Z., ... & Xu, H. **Speciation Detection Deciphering C_2H_2/Cl-Driven Mercury Escape Mechanisms in PVC Production**. Environmental Science & Technology, 2025. https://doi:10.1021/acs.est.5c13769

Li, Z., Zhao, K., Yue, C., He, C., Li, P., Wang, X., ... & Wang, J. **Competition mechanism between Na release and Hg form evolution in high-temperature gasification condition revealed from bond distribution of coal slag**. Journal of the Energy Institute, 2025, 102269. https://doi:10.1016/j.joei.2025.102269

Lenzi, A., Paci, M., Bettini, A., Caprai, A., D'Ulivo, A., Onor, M., ... & Campanella, B. **Sampling and analysis of H2S and Hg from evaporative geothermal cooling towers: The Italian experience**. Geothermics, 2025, 129, 103291. https://doi:10.1016/j.geothermics.2025.103291

Ma, Y., Shi, C., Hong, Q., Du, J., Zhang, H., Zheng, X., ... & Xu, H. **Harnessing graft copolymerization and inverse vulcanization to engineer sulfur-enriched copolymers for the selective uptake of heavy metals**. Separation and Purification Technology, 2025, 362, 131902. https://doi:10.1016/j.seppur.2025.131902

Hong, Q., Xu, H., Ling, C., Liu, Z., Huang, W., Yang, S., ... & Yan, N. **Low-Coordinated Polysulfide Species on Metal Sulfide Enabled Superior Gaseous Mercury Removal from Natural Gas.** Environmental Science & Technology, 2025, 59(8), 4178-4187. https://doi:10.1021/acs.est.4c10944

Lucwaba, Y. A., & Mandiwana, K. L. **Determination of Total Mercury and Mercury Thermospecies in Cement and Cement Raw Materials**. Analytica, 2025, 6(3), 26. https://doi:10.3390/analytica6030026

2023

Viana, L. N., & Saint'Pierre, T. D. **Environmental impact assessment of end-of-life fluorescent lamps in Rio de Janeiro, Brazil, under different recycling rate scenarios**. Chemosphere, 2023, 139835. https://doi.org/10.1016/j.chemosphere.2023.139835

Zhao, J., Wu, X., Ma, Y., Liu, W., Li, Z., & Zhao, S. **Controlled synthesis of CuS with different morphology and pollution control of Hg0 in non-ferrous smelting flue gas**. Fuel, 2023, 351, 128921. https://doi.org/10.1016/j.fuel.2023.128921

Lee, J.C., Park, S.W., Kim, H.S., Alam, T., & Lee, S.Y. **Oxidation Enhancement of Gaseous Elemental Mercury Using Waste Steel Slag under Various Experimental Conditions**. Sustainability, 2023, 15(2), 1406. https://doi.org/10.3390/su15021406

Chuai, X., Yang, Q., Zhang, T., Xiao, R., Cui, X., Yang, J., ... & Zhang, J. **Migration and control of mercury in hazardous chemical waste incineration**. Fuel, 2023, 334, 126706. https://doi.org/10.1016/j.fuel.2022.126706

2022

Qin, R., Chang, S., Mei, J., Hong, Q., & Yang, S. **Selective removal of Hg2+ from acidic wastewaters using sulfureted Fe_2TiO_5: Underlying mechanism and its application as a regenerable sorbent for recovering Hg from waste acids of smelters**. Water Research, 2022, 221, 118796. https://doi.org/10.1016/j.watres.2022.118796

Ding, Z., Yang, C., Zhang, H., Mei, J., Wang, J., & Yang, S. **New utilizations of natural $CuFeS_2$ as the raw material of Cu smelting for recovering Hg0 from Cu smelting flue gas**. Fuel, 2022, 126997. https://doi.org/10.1016/j.fuel.2022.126997

Hong, Q., Zhang, X., Zhu, R., Wang, C., Mei, J., & Yang, S. **Resource utilization of natural pyrite (FeS_2) as the tailings after flotation of natural sphalerite (ZnS) for reclaiming high concentrations of gaseous Hg0 from Zn smelting flue gas**. Chemical Engineering Journal, 2022, 427, 131644. https://doi.org/10.1016/j.cej.2021.131644

Agarwalla, H., Senapati, R.N. & Das, T.B**. Investigation on mercury flow and emission in integrated primary iron production process**. J Mater Cycles Waste Manag., 2022, 24, 2636–2643. https://doi.org/10.1007/s10163-022-01510-w

Sholupov S.E., Ryzhov V.V., Pogarev S.E., Mashyanov N.R. **Automatic monitors for direct continuous mercury measurement in ambient air, hydrocarbon, and industrial gases**. Limnology and Freshwater Biology, 2022 (3), 1349-1351. https://doi.org/10.31951/2658-3518-2022-A-3-1349

Huang, W., Xu, H., Wang, H., Hong, Q., Qu, Z., & Yan, N. **Induced adsorption and agglomeration under bipolar corona discharge to enhance the simultaneous removal of trace mercury and fine particles**. Fuel, 2022, 326, 125069. https://doi.org/10.1016/j.fuel.2022.125069

Zhao, S., Luo, H., Ma, A., Sun, Z., & Zheng, R. **Experimental study on mercury removal from coal-fired flue gas by sulfur modified biomass coke with mechanochemical method**. Fuel, 2022, 309, 122201. https://doi.org/10.1016/j.fuel.2021.122201

S. Rodríguez-Sánchez, P. Díaz, B. Ruiz, S. González, M. Díaz-Somoano, E. Fuente. **Food industrial biowaste-based magnetic activated carbons as sustainable adsorbents for anthropogenic mercury emissions**. Journal of Environmental Management, 2022, 312, 2022, 114897. https://doi.org/10.1016/j.jenvman.2022.114897

Li, G., Wang, S., Wu, Q., Li, J., Chen, Z., Li, J., ... & Liu, K. **Mercury emission characteristics and mechanism in the raw mill system of cement clinker production**. Journal of Hazardous Materials, 2022, 430, 128403. https://doi.org/10.1016/j.jhazmat.2022.128403

Jiang, X., & Wang, F. **Experimental study and reaction mechanism on the process of Br addition for mercury emission control**. Chemical Engineering Journal, 2022, 435, 134776. https://doi.org/10.1016/j.cej.2022.134776

Yang, J., Wang, T., Shi, N., & Pan, W.P. **Immobilization of gaseous elemental mercury by Ag nanoparticles: A combined DFT and experimental study**. Applied Surface Science, 2022, 153217. https://doi.org/10.1016/j.apsusc.2022.153217

Jiaxin Wang, Tao Wang, Qing Wang, Wei-Ping Pan. **Removing ionic and organic mercury from light hydrocarbon liquids by ordered zeolite-templated carbon doped with Sulphur**. Journal of Cleaner Production, 2022, 339, 130698. https://doi.org/10.1016/j.jclepro.2022.130698

2021

Shutang Li, Haomiao Xu, Longlong Wang, Leipeng Ji, Xianwei Li, Zan Qu, Naiqiang Yan. **Dual-functional Sites for Selective Adsorption of Mercury and Arsenic ions in [SnS4]4-/MgFe-LDH from Wastewater**. J. Hazardous Materials, 2021, 403, 123940. https://doi.org/10.1016/j.jhazmat.2020.123940

Yue Peng, Nan Shi, Jiawei Wang, Tao Wang, Wei-Ping Pan. **Mercury speciation and size-specific distribution in filterable and condensable particulate matter from coal combustion**. Science of The Total Environment, 2021, 787, 147597. https://doi.org/10.1016/j.scitotenv.2021.147597

Esbrí, J.M., Rivera, S., Tejero, J., Higueras, P.L. **Feasibility study of fluorescent lamp waste recycling by thermal desorption**. Environ Sci Pollut Res., 2021. https://doi.org/10.1007/s11356-021-16800-3

2020

Sabina Berisha, Igor Živković, Jože Kotnik, Tanja Ljubič Mlakar, Milena Horvat. **Quantifcation of total mercury in samples from cement production processing with thermal decomposition coupled with AAS**. Accreditation and Quality Assurance, 2020, 25, 233–242. https://doi.org/10.1007/s00769-020-01432-w

2019

Jarol R. Miranda-Andrades, Sarzamin Khan, Carlos A.T. Toloza, Roberta M. Maciel, Rainério Escalfoni Jr, Maria Luiza Bragança Tristão, Ricardo Q. Aucelio. **Speciation and ultra trace determination of mercury in produced waters from offshore drilling operations using portable instrumentation and matrix-matching calibration**. Microchemical Journal, 2019, 146, 1072-1082. https://doi.org/10.1016/j.microc.2019.02.045

Fenghua Shen, Jing Liu, Yuchen Dong, Dawei Wu, Chenkai Gu, Zhen Zhang. **Elemental mercury removal from syngas by porous carbon-supported $CuCl_2$ sorbents**. Fuel, 2019, 239, 138-144. https://doi.org/10.1016/j.fuel.2018.11.016

Songtao Liu, Jianmeng Chen, Yue Cao, Haikuan Yang, Chuanmin Chen & Wenbo Jia. **Distribution of mercury in the combustion products from coal-fired power plants in Guizhou, southwest China**. J. Air & Waste Management Association, 2019, 69(2), 234-245. https://doi.org/10.1080/10962247.2018.1535461

2018

Wilson E, Lafferty JS, Thiboldeaux R, et al. **Occupational Mercury Exposure at a Fluorescent Lamp Recycling Facility — Wisconsin, 2017**. MMWR Morb Mortal Wkly Rep, 2018, 67, 763–766. https://doi.org/10.15585/mmwr.mm6727a3externalicon

Shuang Bian, Jiawen Wu, Yongsheng Zhang, Tao Wang, Pauline Norris, and Wei-Ping Pan. **Increasing Recovery Ratios with an Improved European Community Bureau of Reference Method for Mercury Analysis in Flue Gas Desulfurization Gypsum**. Energy Fuels, 2018, 32(8), 8340–8347. https://doi.org/10.1021/acs.energyfuels.8b0182

2017

Pudasainee D., Seo Y. C., Sung J. H., Jang H. N., Gupta R. **Mercury co-beneficial capture in air pollution control devices of coal-fired power plants.** Internat. J. Coal Geology. 2017, 170, 48–53. https://doi.org/10.1016/j.coal.2016.08.013

Xu H., Ma Y., Huang W., Mei J., Zhao S., Qu Z., Yan N. **Stabilization of mercury over Mn-based oxides: speciation and reactivity by temperature programmed desorption analysis**. J.Hazardous Materials, 2017, 321, 745–752. https://doi.org/10.1016/j.jhazmat.2016.09.030

Han, L., Li, Q., Chen, S. et al. **A Magnetically Recoverable Fe_3O_4–NH_2–Pd Sorbent for Capture of Mercury from Coal Derived Fuel Gas**. Sci Rep, 2017, 7, 7448. https://doi.org/10.1038/s41598-017-07802-8

2016

An J., Jiang Y., Zhang Z., Ma X., Wang T., Shang K., Li J. **Oxidation characteristics of mixed NO and Hg0 in coal-fired flue gas using active species injection generated by surface discharge plasma**. Chemical Engineering Journal. 2016, 288, 298–304. https://doi.org/10.1016/j.cej.2015.11.048

Belo L. P., Elliott L. K., Stanger R. J., Wall T. F. **Impacts of sulfur oxides on mercury speciation and capture by fly ash during oxy-fuel PC combustion**. Energy & Fuels. 2016, 30(10), 8658–8664. https://doi.org/10.1021/acs.energyfuels.6b01078

Chen W., Pei Y., Huang W., Qu Z., Hu X., Yan N. **Novel effective catalyst for elemental mercury removal from coal-fired flue gas and the mechanism investigation**. Environmental Science & Technology. 2016, 50(5), 2564–2572. https://doi.org/10.1021/acs.est.5b05564

Yang, Y., Xu, W., Wu, Y., Xiong, J., Zhu, T., Zhou, X., & Tong, L. **Effect of HBr formation on mercury oxidation via $CaBr_2$ addition to coal during combustion**. RSC Advances, 2016, 6(64), 59009–59015. https://doi.org/10.1039/c6ra11468g

2015

Oseas García, Marcello M. Veiga, Paul Cordy, Osvaldo E. Suescún, Jorge Martin Molina, Monika Roeser. **Artisanal gold mining in Antioquia, Colombia: a successful case of mercury reduction**. J. Cleaner Production, 2015, 90, 244-252. https://doi.org/10.1016/j.jclepro.2014.11.032

Wu Q., Wang S., Hui M., Wang F., Zhang L., Duan L., Luo Y. **New insight into mercury emissions from zinc smelters using mass flow analysis.** Environmental Science & Technology, 2015, 49(6), 3532–3539. https://doi.org/10.1021/es505723a

2014

Ren W., Duan L., Zhu Z., Du W., An Z., Xu L., Zhang C., Zhuo Y., Chen C. **Mercury Transformation and Distribution Across a Polyvinyl Chloride (PVC) Production Line in China**. Environmental Science & Technology, 2014, 48(4), 2321–2327. https://doi.org/10.1021/es404147c

Volkov, D.S., Proskurnin, M.A., & Korobov, M.V. **Survey study of mercury determination in detonation nanodiamonds by pyrolysis flameless atomic absorption spectroscopy**. Diamond and Related Materials, 2014, 50, 60–65. https://doi.org/10.1016/j.diamond.2014.08.013

2013

Xu, W., Wang, H., Zhu, T., Kuang, J., Jing, P. **Mercury removal from coal combustion flue gas by modified fly ash. Journal of Environmental Sciences**, 2013, 25(2), 393–398. https://doi.org/10.1016/s1001-0742(12)60065-5

Casasús A., Gruss A., Baun D., Morales M., Mazyck D. **Silica-titania-coated packing: novel solution capable of 90% Hg capture with low operation and maintenance costs**. J. Environmental Engineering, 2013, 139(1), 86–94. https://doi.org/10.1061/(ASCE)EE.1943-7870.0000615

Cho J. H., Eom Y., Park J. M., Lee S. B., Hong J. H., Lee T. G. **Mercury leaching characteristics of waste treatment residues generated from various sources in Korea**. Waste Management, 2013, 33(7), 1675–1681. https://doi.org/10.1016/j.wasman.2013.04.004

Jiang Y. Z., An J. T., Jiang D. W., Li J., Wu Y. **Oxidation of elemental mercury by active species injection from a surface discharge reactor**. Advanced Materials Research, 2013, 807–809, 1294–1297. https://doi.org/10.4028/www.scientific.net/AMR.807-809.1294

Jiang Y. Z., Chen C. M., Jiang L. X., Liu S. T., Wang B. **Study of mercury re-emission from simulated wet flue gas desulfurization liquors**. Advanced Materials Research, 2013, 610–613, 2033–2037. https://doi.org/10.4028/www.scientific.net/AMR.610-613.2033

Spörl R., Belo L., Shah K., Stanger R., Giniyatullin R., Maier J., Wall T., Scheffknecht G. **Mercury emissions and removal by ash in coal-fired oxy-fuel combustion**. Energy & Fuels, 2013, 28(1), 123–135. https://doi.org/10.1021/ef4014604

Stergaršek A., Horvat M., Frkal P., Guevara S. R., Kocjančič R. **Removal of Hg0 in wet FGD by catalytic oxidation with air – A contribution to the development of a process chemical model**. Fuel, 2013, 107, 183–191. https://doi.org/10.1016/j.fuel.2012.08.001

2012

Reynaldo Forte, Jr., Jeffrey V. Ryan, Travis P. Johnson, and Peter H. Kariher. **The United States Environmental Protection Agency's Mercury Measurement Toolkit: An Introduction**. Energy Fuels 2012, 26, 4643−4646/ https://.doi.org/10.1021/ef3001949

He F., Wang W., Moon J.-W., Howe J., Pierce E. M., Liang L. **Rapid removal of Hg(II) from aqueous solutions using thiol-functionalized Zn-doped biomagnetite particles**. Applied Materials & Interfaces, 2012, 4(8), 4373–4379. https://doi.org/10.1021/am301031g

Li J.-R., He C., Shang X.-S., Chen J.-S., Yu X.-W., Yao Y.-J. **Oxidation efficiency of elemental mercury in flue gas by SCR De-NOx catalysts. J. Fuel Chemistry and Technology**, 2012, 40(2), 241-246. https://doi.org/10.1016/S1872-5813(12)60012-7

López-Delgado A., López F. A., Alguacil F. J., Padilla I., Guerrero A. **A microencapsulation process of liquid mercury by sulfur polymer stabilization/solidification technology. Part I: Characterization of materials.** Revista de Metalurgia, 2012, 48(1), 45–57. https://doi.org/10.3989/revmetalm.1133

Zhang L., Zhuo Y., Du W., Tao Y., Chen C., Xu X. **Hg removal characteristics of noncarbon sorbents in a fixed-bed reactor**. Industrial & Engineering Chemistry Research, 2012, 51(14), 5292–5298. https://doi.org/10.1021/ie202750c

Zheng Y., Jensen A. D., Windelin C., Jensen F. **Dynamic measurement of mercury adsorption and oxidation on activated carbon in simulated cement kiln flue gas.** Fuel, 2012, 93, 649–657. https://doi.org/10.1016/j.fuel.2011.09.053

2011

Wang J., Wang W., Xu W., Wang X., Zhao S. **Mercury removals by existing pollutants control devices of four coal-fired power plants in China**. Journal of Environmental Sciences (China), 2011, 23(11), 1839–1844. https://doi.org/10.1016/S1001-0742(10)60584-0

Raj Singhvi, Ajay Taneja, Jay R. Patel, Vinod Kansal, Charles J. Gasser & Dennis J. Kalnicky. **Determination of Total Metallic Mercury in Compact Fluorescent Lamps (CFLs).** Environmental Forensics, 2011, 12(2), 143-148. HTTPS://DOI.ORG/10.1080/15275922.2011.572953

Patricio C. Velásquez-López, Marcelo M. Veiga, Bern Klein, Janis A. Shandro, Ken Hall. **Cyanidation of mercury-rich tailings in artisanal and small-scale gold mining: identifying strategies to manage**

environmental risks in Southern Ecuador. Journal of Cleaner Production, 2011, 19, 1125e1133. https://doi.org/10.1016/j.jclepro.2010.09.008

Qi Wan, Lei Duan, Kebin He, Junhua Li. **Removal of gaseous elemental mercury over a CeO_2–WO_3/TiO_2 nanocomposite in simulated coal-fired flue gas**. Chemical Engineering Journal, 2011, 170, 512–517. https://doi.org/10.1016/j.cej.2010.11.060

Wan Q., Duan L., Li J., Chen L., He K., Hao J. **Deactivation performance and mechanism of alkali (earth) metals on V_2O_5–WO_3/TiO_2 catalyst for oxidation of gaseous elemental mercury in simulated coal-fired flue gas.** Catalysis Today, 2011, 175(1), 189–195. https://doi.org/10.1016/j.cattod.2011.03.011

Wang H., Zhou S., Xiao L., Wang Y., Liu Y., Wu Z. **Titania nanotubes – A unique photocatalyst and adsorbent for elemental mercury removal**. Catalysis Today, 2011, 175(1), 202–208. https://doi.org/10.1016/j.cattod.2011.03.006

Song B. Y., Eom Y., Lee T. G. **Removal and recovery of mercury from aqueous solution using magnetic silica nanocomposites**. Applied Surface Science, 2011, 257(10), 4754–4759. https://doi.org/10.1016/j.apsusc.2010.12.156

Lee T. G., Eom Y., Lee C. H., Song K. S. **Stabilization and solidification of elemental mercury for safe disposal and/or long-term storage**. Journal of the Air & Waste Management Association, 2011, 61(10), 1057–1062. https://doi.org/10.1080/10473289.2011.608615

Tserenpil S., Liu C.-Q. **Study of antimony (III) binding to soil humic acid from an antimony smelting site**. Microchemical Journal, 2011, 98(1), 15–20. https://doi.org/10.1016/j.microc.2010.10.003

2010

Tanja Ljubic Mlakar, Milena Horvat, Tomaz Vuk, Andrej Stergaršek, Joze Kotnik, Janja Tratnik, Vesna Fajon. **Mercury species, mass flows and processes in a cement plant.** Fuel, 2010, 89, 1936–1945. https://doi.org/10.1016/j.fuel.2010.01.009

Zan Qu, Naiqiang Yan, Ping Liu, Yongfu Guo, Jinping Jia. **Oxidation and Stabilization of Elemental Mercury from Coal-Fired Flue Gas by Sulfur Monobromide**. Environ. Sci. Technol. 2010, 44, 3889–3894. https://doi.org/10.1021/es903955s

Gostomczyk M. A., Lech-Brzyk K. **Flue-gas cleaning after thermal waste utilization**. Environment Protection Engineering, 2010, 36(4), 57–64. http://epe.pwr.wroc.pl/2010/gostomczyk_4-2010.pdf

Kolesnikov S.P., Rubinskaya T.Ya., Strel'tsova E.D., Leonova M.Yu., Korshevets I.K., Zykov A.M., Anichkov S.N. **Distribution of mercury in the combustion products of coal dust in boilers with liquid slag removal**. Solid Fuel Chemistry, 2010, 44(1), 50–55. https://doi.org/10.3103/S0361521910010106

Llanos W., Higueras P., Oyarzun R., Esbrí J. M., López-Berdonces M. A., García-Noguero E. M., Martínez-Coronado A. **The MERSADE (European Union) project: Testing procedures and environmental impact for the safe storage of liquid mercury in the Almadén district, Spain.** Sci. Total Environment, 2010, 408(20), 4901–4905. https://doi.org/10.1016/j.scitotenv.2010.05.026

Stergaršek A., Horvat M., Frkal P., Stergaršek J. **Removal of Hg0 from flue gases in wet FGD by catalytic oxidation with air – an experimental study**. Fuel, 2010, 89(11), 3167–3177. https://doi.org/10.1016/j.fuel.2010.04.006

2009

Brown T., Lissianski V. **First full-scale demonstration of mercury control in Alberta**. Fuel Processing Technology, 2009, 90(11), 1412–1418. https://doi.org/10.1016/j.fuproc.2009.08.005

Qiao S., Chen J., Li J., Qu Z., Liu P., Yan N., Jia J. **Adsorption and catalytic oxidation of gaseous elemental mercury in flue gas over MnOx/Alumina. Industrial** & Engineering Chemistry Research, 2009, 48(7), 3317–3322. https://doi.org/10.1021/ie801478w

Thoma E. D., Secrest C., Hall E. S., Lee Jones D., Shores R. C., Modrak M., Hashmonay R., Norwood P. **Measurement of total site mercury emissions from a chlor-alkali plant using ultraviolet differential optical absorption spectroscopy and cell room roof-vent monitoring**. Atmospheric Environment, 2009, 43(3), 753–757. https://doi.org/10.1016/j.atmosenv.2008.10.032

2008

Cheng C.-M., Lin H.-T., Wang Q., Chen C.-W., Wang C.-W., Liu M.-C., Chen C.-K., Pan W.-P. **Experiences in long-term evaluation of mercury emission monitoring systems**. Energy & Fuels, 2008, 22(5), 3040–3049. https://doi.org/10.1021/ef7006744

Eom Y., Jeon S. H., Ngo T. A., Kim J., Lee T. G. **Heterogeneous mercury reaction on a selective catalytic reduction (SCR) catalyst.** Catalysis Letters, 2008, 121(3–4), 219–225. https://doi.org/10.1007/s10562-007-9317-0

2007

Grover T. L., Vidich Ch., Hennessey J., Freitas J., Mueller M. D. **Mercury exposure assessment: Testing a work practice for cleaning up broken fluorescent bulbs**. Professional Safety, 2007, 12, 39–45. www.asse.org/professional-safety/indexes/2007/

Li Y., Wu C.-Y. **Kinetic study for photocatalytic oxidation of elemental mercury on a SiO_2–TiO_2 nanocomposite**. Environmental Engineering Science, 2007, 24(1), 3–12. https://doi.org/10.1089/ees.2007.24.3

2005

Lindberg S. E., Southworth G. R., Bogle M. A., Blasing T. J., Owens J., Roy K., Zhang H., Kuiken T., Price J., Reinhart D., Sfeir H. **Airborne emissions of mercury from municipal solid waste. I: New measurements from six operating landfills in Florida**. J. Air & Waste Management Association. 2005, 55(7), 859–869. https://doi.org/10.1080/10473289.2005.10464684

2004

John S. Kinsey, F.R. Anscombe, Steven E. Lindberg, George R. Southworth. **Characterization of the fugitive mercury emissions at a chlor-alkali plant: overall study design**. Atmospheric Environment 2004, 38, 633–641. https://doi.org/10.1016/j.atmosenv.2003.09.059

Intercomparison Studies

2026

Haraguchi, K., Sakamoto, M., Nagasaka, H., Uchida, K., Ito, Y., Horvat, M., ... & Nakamura, M. **Method development and production of an ambient-stable blood certified reference material for total mercury, methylmercury, and trace elements**. Analytica Chimica Acta, 345580, 2026. https://doi:10.1016/j.aca.2026.345580

2024

Gačnik J., Živković, I., Kotnik J., Božič D., Tassone A., Naccarato A., ... & Horvat M. **Comparison of active measurements, lichen biomonitoring, and passive sampling for atmospheric mercury monitoring**. Environmental Science and Pollution Research, 2024, 1-11. https://doi.org/10.1007/s11356-024-33582-6

2023

Edwards, B.A., Pfeffer, M.A., Jyhannsson, þ., Outridge, P.M., Wang, F. **An inter-method comparison of mercury measurements in Icelandic volcanic gases**. Applied Geochemistry, 2023, https://doi.org/10.1016/j.apgeochem.2023.105654

2021

Jiawei Wang, Liyuan Liu, Siqi Li, Yang Chen, Tao Wang, Yongsheng Zhang. **Mercury emissions and distribution in a waste incineration plant based on the 30B and Ontario Hydro methods**. J. Cleaner Production, 2021, 328, 2021, 129663. https://doi.org/10.1016/j.jclepro.2021.129663

2020

Iris de Krom, Wijnand Bavius, Ruben Ziel, Elizabeth A. McGhee, Richard J. C. Brown, Igor Živković, Jan Gačnik, Vesna Fajon, Jože Kotnik, Milena Horvat, and Hugo Ent. **Comparability of calibration strategies for measuring mercury concentrations in gas emission sources and the atmosphere.** Atmos. Meas. Tech. Discuss. 2020. https://doi.org/10.5194/amt-2020-314, in review

K. Haraguchi, M. Sakamoto, A. Matsuyama, M. Yamamoto, D.T. Hung, H. Nagasaka, K. Uchida, Y. Ito, H. Kodamatani, M. Horvat, H.M. Chan, V. Rand, C.M. Cirtiu, B-G. Kim, F. Nielsen, A. Yamakawa, N. Mashyanov, N. Panichev, E. Panova, T. Watanabe, N. Kaneko, J. Yoshinaga, R.F. Herwati, A.E. Suoth, H. Akagi. **Development of Human Hair Reference Material Supporting the Biomonitoring of Methylmercury**. Analytical Sciences, 2020, 36(5), 561. https://doi.org/10.2116/analsci.19SBP07

Zhao, G., Zhang, W., Duan, Z. Lian, M., Li, Y., Zhu, S., & Svanberg, S. **Mercury as a Geophysical Tracer Gas - Emissions from the Emperor Qin Tomb in Xi´an Studied by Laser Radar**. Sci Rep, 2020, 10, 10414. https://doi.org/10.1038/s41598-020-67305-x

2019

IAEA-MESL-ILC-TE-SEDIMENT-2018. IAEA, VIENNA, 2019 IAEA/AQ/60, ISSN 2074–7659

2018

Lian M, Shang L, Duan Z, Li Y, Zhao G, Zhu S, Qiu G, Meng B, Sommar J, Feng X, Svanberg S. **Lidar mapping of atmospheric atomic mercury in the Wanshan area, China**. Environ Pollut., 2018, 240:353-358. https://doi.org/10.1016/j.envpol.2018.04.104

2017

Lin, H., Zhang, W., Deng, C., Tong, Y., Zhang, Q., & Wang, X. **Evaluation of passive sampling of gaseous mercury using different sorbing materials**. Environmental Science and Pollution Research, 2017, 24, 14190-14197. https://doi.org/10.1007/s11356-017-9018-1

Nenad Sarunac. **Armstrong Project. Evaluation and Comparison of U.S. and EU Reference Methods for Measurement of Mercury, Heavy Metals, PM2.5 and PM10 Emissions from Fossil-Fired Power Plants**. Final Report. Energy Research Center, Lehigh University. 2017. 313 p.

S. Broks, V. Eller, J. Dickson, et al. **Mercury Content of Sediments in East Fork Poplar Creek: Current Assessment and Past Trends**. Oak Ridge National Laboratory. ORNL/TM-2016/578, 2017. https://info.ornl.gov/sites/publications/files/Pub70543.pdf

2016

Esbrí, J. M., Martínez-Coronado, A., and Higueras, P. L. **Temporal variations in gaseous elemental mercury concentrations at a contaminated site: Main factors affecting nocturnal maxima in daily cycles**. Atmos. Environ., 2016, 125, 8–14. https://doi.org/10.1016/j.atmosenv.2015.10.064

Rumayor, M., Lopez-Anton, M. A., Díaz-Somoano, M., Maroto-Valer, M. M., Richard, J.-H., Biester, H., & Martínez-Tarazona, M. R. **A comparison of devices using thermal desorption for mercury speciation in solids.** Talanta, 2016, 150, 272–277. https://doi.org/10.1016/j.talanta.2015.12.058

2014

Zheng, J., Pelchat, P., Vaive, J., Bass, D., Ke, F. **Total mercury in snow and ice samples from Canadian High Arctic ice caps and glaciers: A practical procedure and method for total Hg quantification at low pgg−1 level**. Sci. Total Environment, 2014, 468-469, 487–494. https://doi.org/10.1016/j.scitotenv.2013.08.078

2013

Wip, D., Warneke, T., Petersen, A.K. et al. **Urban mercury pollution in the City of Paramaribo, Suriname.** Air Qual Atmos Health, 2013, 6, 205–213. https://doi.org/10.1007/s11869-011-0162-3

Fernanda Veronesi M. Pontes, Manuel C. Carneiro, Delmo S. Vaitsman, Maria Inês C.Monteiro, Arnaldo A. Neto, Maria Luíza B. Tristão, Maurício de F. Guerrante. **Comparative study of sample decomposition methods for the determination of total Hg in crude oil and related products**. Fuel Process. Technol., 106, 2013, 122-126. https://doi.org/10.1016/j.fuproc.2012.07.011

Ramírez, C.; Olarte, E.; Téllez, E.; Palma, M. **Validación del método analítico para la determinación de mercurio total en sangre humana por espectrofotometría de absorción atómica Zeeman RA-915+ con el módulo de pirólisis PYRO-915+**. Rev Colomb Quim. 2013. 42(3): 11-16. On-line version ISSN 2357-3791

2012

Fernanda Veronesi M. Pontes, Manuel C. Carneiro, Delmo S. Vaitsman, Maria Inês C. Monteiro, Arnaldo A. Neto, Maria Luíza B. Tristão, Maurício de F. Guerrante. **Comparative study of sample decomposition methods for the determination of total Hg in crude oil and related products**. Fuel Processing Technology. 2013. Vol. 106, 122-126. https://doi.org/:10.1016/j.fuproc.2012.07.011

Zhang W., Tong Y., Hu D., Ou L., Wang X. **Characterization of atmospheric mercury concentrations along an urban–rural gradient using a newly developed passive sampler**. Atmospheric Environment, 2012, 47, 26–32. https://doi.org/10.1016/j.atmosenv.2011.11.046

2011

John G. Kelly, Fengxiang X. Han,Yi Su, Yunjun Xia, Valerie Philips, Zhiqi Shi, David L. Monts, Sergio T. Pichardo, Kang Xia. **Rapid Determination of Mercury in Contaminated Soil and Plant Samples Using**

Portable Mercury Direct Analyzer without Sample Preparation, a Comparative Study. Water Air Soil Pollut (2012) 223:2361–2371. https://doi.org/10.1007/s11270-011-1030-3

Jennifer Baeuml, Stephan Bose-O'Reilly, Beate Lettmeiea, Alexandra Maydl, Katalin Messerer, Gabriele Roider, Gustav Drasch, Uwe SiebertInternat. **Applicability of two mobile analysers for mercury in urine in small-scale gold mining areas**. Journal of Hygiene and Environmental Health 215 (2011) 64– 67. https://doi.org/10.1016/j.ijheh.2011.06.005

Fu, X. W., Feng, X. B., & Zhang, H. **Atmospheric total gaseous mercury concentration in Guiyang: measurements intercomparison with Lumex RA-915AM and Tekran 2537A.** Ecol, 2011, 30, 939-943. https://www.researchgate.net/publication/285642816_Atmospheric_total_gaseous_mercury_concentration_in_Guiyang_Measurements_intercomparison_with_Lumex_RA-915AM_and_Tekran_2537A

2010

IAEA-456 Trace elements and methylmercury in marine sediment (2010)

Richard J. C. Brown, N. Pirrone, C. van Hoekc F. Sprovieri, R. Fernandez and K. Tote. **Standardisation of a European measurement method for the determination of total gaseous mercury: Results of the field trial campaign and determination of a measurement uncertainty and working range**. J. Environ. Monitoring 12(3):689-95, 2010. https://doi.org/10.1039/b924955a

2009

IAEA-452 Trace elements and methylmercury in scallop (2009)

2008

iis08R01 Mercury in Naphtha (2008)

2007

IAEA-158 Trace elements and methylmercury in marine sediment (2007)

iis07N01 Mercury in Naphtha (2007)

iis07R01 Mercury in Crude Oil (2007)

2006

Ki-Hyun Kim, Vinit K. Mishra, Sungmin Hong. **The rapid and continuous monitoring of gaseous elemental mercury (GEM) behavior in ambient air**. Atmospheric Environment 40 (2006) 3281–3293. https://doi.org/10.1016/j.atmosenv.2006.01.046

2005

R. Grönlund, H. Edner, S. Svanberg, J. Kotnik, M. Horvat. **Mercury emissions from the Idrija mercury mine measured by differential absorption lidar techniques and a point monitoring absorption spectrometer**. Atmospheric Environment, 2005, 39(22), 4067-4074. https://doi.org/10.1016/j.atmosenv.2005.03.027

2004

IAEA-436 Trace elements and methylmercury in tuna fish flesh gomogenate (2004)

EPA Innovative Technology Verification Report. Field Measurement Technology for Mercury in Soil and Sediment. **Field Measurement Technology for Mercury in Soil and Sediment Ohio Lumex's RA-915+/RP-91C Mercury Analyzer**. EPA/600/R-03/147, May 2004.

Ghestem J.P., Misseri J.P., H. Riolland H. **Validation of a mercury analyser: Lumex RA915+/RP91C (solid configuration)**. RMZ – Materials and Geoenvironment. 2004. V. 51, № 3.1917–1920. www.rmz-mg.com/letniki/rmz51/rmz51_1851-2067.pdf

Southworth, G. R., Lindberg, S. E., Zhang, H., & Anscombe, F. R. **Fugitive mercury emissions from a chlor-alkali factory: sources and fluxes to the atmosphere**. Atmospheric Environment, 2004, 38(4), 597–611. https://doi.org/10.1016/j.atmosenv.2003.09.057

2003

IAEA-433 Trace elements and methylmercury in marine sediment (2003)

Singhvi, R., Kalnicky, D., Patel, J., Mehra, Y. **Comparison of real-time and laboratory analysis of mercury vapor in indoor air: Statistical analysis results**. ETDEWEB, 2003. https://www.osti.gov/etdeweb/biblio/20366313

2000

IAEA-407 Trace elements and methylmercury in fish gomogenate sample (2000)

Marine research

2026

Sun, X., Jia, R., Yin, R., & Yang, X. **Anomalous mercury isotopic composition highlights the essential role of terrestrial erosion in forming cold seeps in the continental margin of the South China Sea**. Journal of Asian Earth Sciences, 2026, 107253. https://doi:10.1016/j.jseaes.2026.107253

Sattarova, V., Bekesha, I., Melgunov, M., Mariash, A., Huang, X., Aksentov, K., & Dasgupta, S. **Mercury in the deep-sea sediments of the western Aleutian Trench: Spatio-temporal distribution and risk assessment**. Deep Sea Research Part I: Oceanographic Research Papers, 2026, 230, 104696. https://doi:10.1016/j.dsr.2026.104696

Kalinchuk, V. **Distribution, sources, and transport pathways of atmospheric gaseous elemental mercury: interhemispheric differences during a transatlantic cruise from the Baltic Sea to the Southern Ocean in 2019–2020**. Environmental Pollution, 2026, 400, 128287. https://doi:10.1016/j.envpol.2026.128287

Pan, J., Li, Z., Yang, X., Ma, H., Ma, X., & Shangguan, Y. **Paleoenvironmental Controls on Organic Matter Enrichment in Marine–Continental Transitional Shales of the Upper Carboniferous Yanghugou Formation, Western Ordos Basin**. Journal of Marine Science and Engineering, 2026, 14(17), 1562. https://doi:10.3390/jmse14171562

2025

Covelli, S., Pisoni, C., Pavoni, E., Floreani, F., Petranich, E., Adami, G., ... & Busetti, M. **Lithogenic and anthropogenic contributions of trace metal (oid) s in coastal sediments near the Port of Trieste (northern Adriatic Sea): A geochemical normalisation approach based on regional background values.** Marine Pollution Bulletin, 2025, 214, 117774. https://doi:10.1016/j.marpolbul.2025.117774

Aksentov, K., Sattarova, V., Lopatnikov, E., Alatorsev, A., Kim, D., Budanov, L., ... & Selutin, S. **Features of mercury geochemistry and the dynamics of its accumulation in bottom sediments of the northwestern Bering Sea over the past 150 years**. Marine Pollution Bulletin, 2025, 215, 117907. https://doi:10.1016/j.marpolbul.2025.117907

Aksentov, K., Kalinchuk, V., & Semkin, P. **Mercury accumulation by diatoms in the ice covered Partizanskaya River Estuary (Primorsky Territory, Russia) during the winter bloom**. Regional Studies in Marine Science, 2025, 104294. https://doi:10.1016/j.rsma.2025.104294

Kalinchuk, V. **Sources, transport pathways, seasonal and diurnal variations of atmospheric gaseous elemental mercury on the Russian coast of the sea of Japan: Findings from 2021 to 2022 observations**. Science of The Total Environment, 2025, 1004, 180831. https://doi:10.1016/j.scitotenv.2025.180831

2024

Fendley, I. M., Frieling, J., Mather, T. A., Ruhl, M., Hesselbo, S. P., & Jenkyns, H. C. **Early Jurassic large igneous province carbon emissions constrained by sedimentary mercury.** Nature Geoscience, 2024, 17(3), 241-248. https://doi:10.1038/s41561-024-01378-5

Walker-Trivett, C.A., Kender, S., Bogus, K.A. et al. **Oceanic Anoxic Event 2 triggered by Kerguelen volcanism**. Nat Commun, 2024, 15, 5124. https://doi:10.1038/s41467-024-49032-3

Lopatnikov, E.A., & Ivanov, M.V. **Application of concentration-weighted trajectory approach to identify sources with high anthropogenic mercury emissions in the East Asia**. Marine Pollution Bulletin, 2024, 209, 117120. https://doi:10.1016/j.marpolbul.2024.117120

2023

Prishchepenko, D.V., Ryabchuk, D.V., Zhamoida, V.A., Sergeev, A.Y., Leontev, F.A., Grigoriev, A.G., ... & Kovaleva, O.A. **Main trends and results of 300-years anthropogenic impact on the geological environment and ecosystem of the Eastern Gulf of Finland**. Continental Shelf Research, 2023, 265, 105058. https://doi.org/10.1016/j.csr.2023.105058

Berezina, N., Maximov, A., Sharov, A., Gubelit, Y., & Kholodkevich, S. **Environmental Assessment with Cage Exposure in the Neva Estuary, Baltic Sea: Metal Bioaccumulation and Physiologic Activity of Bivalve Molluscs**. Journal of Marine Science and Engineering, 2023, 11(9), 1756. https://doi.org/10.3390/jmse11091756

Liang, X., Zhong, H., Johs, A. et al. **Light-independent phytoplankton degradation and detoxification of methylmercury in water**. Nat Water, 2023, 1, 705–715. https://doi.org/10.1038/s44221-023-00117-1

Floreani, F., Barago, N., Klun, K., Faganeli, J., & Covelli, S. **Dissolved gaseous mercury production and sea-air gaseous exchange in impacted coastal environments of the northern Adriatic Sea**. Environmental Pollution, 2023, 332, 121926. https://doi.org/10.1016/j.envpol.2023.121926

Kalinchuk, V.V. **Gaseous elemental mercury and its evasion fluxes in the marine boundary layer of the marginal seas of the northwestern Pacific: Results from two cruises in September–December 2019**. Science of The Total Environment, 2023, 858, 159711. https://doi.org/10.1016/j.scitotenv.2022.159711

Kim, D., Aksentov, K., Astakhov, A., Sattarova, V., Ivanov, M., Alatorsev, A., Obrezkova, M., Selutin, S. **Geochemistry aspects of modern mercury accumulation in bottom sediments from the south-western Chukchi Sea**. Marine Pollution Bulletin, 2023, 189, 114768. https://doi.org/10.1016/j.marpolbul.2023.114768

Kim, D.V., Sattarova, V.V., Aksentov, K.I., Lopatnikov, E.A., Ivanov, M.V., Alatortsev, A.V., & Melgunov, M.S. **Mercury geochemistry of marine sediments from the eastern Laptev Sea: The spatial distribution, levels, and contamination assessment**. Marine Pollution Bulletin, 2023, 187, 114576. https://doi.org/10.1016/j.marpolbul.2023.114576

de Pontes, G. C., de Carvalho Vicente, M., Kasper, D., Machado, W. T., & Wasserman, J. C. **Spatial distribution of total mercury and methylmercury in the sediment of a tropical coastal environment subjected to heavy urban inputs**. Chemosphere, 2023, 312, 137067. https://doi.org/10.1016/j.chemosphere.2022.137067

2022

Sattarova, V.V., Aksentov, K.I., Ivanov, M.V., Alatortsev, A.V., Kim, D.V., & Obrezkova, M.S. **Distribution and assessment of trace metals in modern bottom sediments in the southwestern Chukchi Sea**. Marine Pollution Bulletin, 2022, 180, 113797. https://doi.org/10.1016/j.marpolbul.2022.113797

Teixeira, M., Cesar, R., Abessa, D., Siqueira, C., Lourenço, R., Vezzone, M., ... & Castilhos, Z. **Ecological risk assessment of metal and hydrocarbon pollution in sediments from an urban tropical estuary: Tijuca lagoon (Rio de Janeiro, Brazil)**. Environmental Science and Pollution Research, 2022, 1-17. https://doi.org/10.1007/s11356-022-22214-6

Man, X., Huang, H., Chen, F., Gu, Y., Liang, R., Wang, B., ... & Jiang, S. **Anthropogenic impacts on the temporal variation of heavy metals in Daya Bay (South China)**. Marine Pollution Bulletin, 2022, 185, 114209. https://doi.org/10.1016/j.marpolbul.2022.114209

Ivanov, M.V., Aksentov, K.I., & Astakhov, A.S. **Mercury concentrations in the surface bottom sediments and cores of the East Siberian and Laptev seas and the adjacent area of the Arctic Ocean**. Limnology and Freshwater Biology, 2022, 1352-1354. https://doi.org/10.31951/2658-3518-2022-A-3-1352

Kotnik, J., Žagar, D., Novak, G., Ličer, M., & Horvat, M. **Dissolved Gaseous Mercury (DGM) in the Gulf of Trieste, Northern Adriatic Sea**. Journal of Marine Science and Engineering, 2022, 10(5), 587. https://doi.org/10.3390/jmse10050587

L. Cegolon, G. Mastrangelo, S. Covelli, E. Petranich, E. Pavoni, F.L. Filon. **Occupational exposure to mercury from cinnabar enriched sand in workers of Grado Beach, Gulf of Trieste (North-eastern Italy, upper Adriatic Sea)**. Marine Pollut Bull., 2022, 184, 114057. https://doi.org/10.1016/j.marpolbul.2022.114057

Kalinchuk, V.V. **Gaseous elemental mercury and its evasion fluxes in the marine boundary layer of the marginal seas of the northwestern Pacific: Results from two cruises in September–December 2019**. Science of The Total Environment, 2022, 159711. https://doi.org/10.1016/j.scitotenv.2022.159711

V. Kalinchuk, A. Yatsuk, L.B. Marchesini, E. Lopatnikov, O. Nesterova, R. Valentini, K. Aksentov. **The first simultaneous and continuous underway measurements of atmospheric gaseous elemental mercury, carbon dioxide and methane in the marine boundary layer: Results of cruise study in the Sea of Japan in May 2018**. Atmospheric Pollution Research, 2022, 13(7). https://doi.org/10.1016/j.apr.2022.101458

E. Petranich, S. Predonzani, A. Acquavita, N. Mashyanov, S. Covelli. **Rapid thermoscanning technique for direct analysis of mercury species in contaminated sediments: From pure compounds to real sample application**. Applied Geochemistry, 2022, 105393. https://doi.10.1016/j.apgeochem.2022.105393

Valitov, M.G., Shakirov, R.B., Lee, N.S. et al. **Geological–Geophysical and Oceanographic Research in the Sea of Japan, Tatar Strait, on Cruise 61 of the R/V Akademik Oparin**. Oceanology, 2022, 62, 139–141. https://doi.org/10.1134/S0001437022010179

Ge, X., Chen, D., Zhang, G., Huang, T., Liu, M., & El-Shafeiy, M. **Marine redox evolution and organic accumulation in an intrashelf basin, NE Sichuan Basin during the Late Permian**. Marine and Petroleum Geology, 2022, 105633. https://doi.org/10.1016/j.marpetgeo.2022.105633

2021

S. Covelli, E. Petranich, E. Pavoni, S. Signore. **Can Sediments Contaminated by Mining be a Source of Mercury in the Coastal Environment Due to Dredging? Evidence from Thermo-Desorption and Chemical Speciation**. Bull Environmental Contamination and Toxicology, 2021, https://doi.org/10.1007/s00128-021-03159-x

V.V. Kalinchuk, E.A. Lopatnikov, A.S. Astakhov, M.V. Ivanov, L. Hu. **Distribution of atmospheric gaseous elemental mercury (Hg(0)) from the Sea of Japan to the Arctic, and Hg(0) evasion fluxes in the Eastern Arctic Seas: Results from a joint Russian-Chinese cruise in fall 2018**. STOTEN, 2021 (in print). https://doi.org/10.1016/j.scitotenv.2020.142003

Xueyun Wang, Changzhou Deng, Zongyong Yang, Jing-Jing Zhu, Runsheng Yin. **Oceanic mercury recycled into the mantle: Evidence from positive Δ199Hg in lamprophyres**. Chemical Geology, 2021, 584, 120505. https://doi.org/10.1016/j.chemgeo.2021.120505

2020

Federico Floreani, Nicolò Barago, Alessandro Acquavita, Stefano Covelli, Nicola Skert and Pablo Higueras. **Spatial Distribution and Biomonitoring of Atmospheric Mercury Concentrations over a Contaminated Coastal Lagoon (Northern Adriatic, Italy)**. Atmosphere, 2020, 11, 1280. https://doi.org/10.3390/atmos11121280

Nicolò Barago, Federico Floreani, Alessandro Acquavita, José María Esbrí, Stefano Covelli and Pablo Higueras. **Spatial and Temporal Trends of Gaseous Elemental Mercury over a Highly Impacted Coastal Environment (Northern Adriatic, Italy)**. Atmosphere, 2020, 11, 935. https://doi.org/10.3390/atmos11090935

Viktor V. Kalinchuk, Evgeny A. Lopatnikov, Anatoliy S. Astakhov, Maxim V. Ivanov, Limin Hub. **Distribution of atmospheric gaseous elemental mercury (Hg(0)) from the Sea of Japan to the Arctic, and Hg(0) evasion fluxes in the Eastern Arctic Seas: Results from a joint Russian-Chinese cruise in fall 2018.** Science of the Total Environment 753. 2021. https://doi.org/10.1016/j.scitotenv.2020.142003

Thiago S. Figueiredo, Thiago P. Santos, Karen B. Costa, Felipe Toledo, Ana Luiza S. Albuquerque, Joseph M. Smoak, Bridget A. Bergquist, Emmanoel Vieira Silva-Filho. **Effect of deep Southwestern Subtropical Atlantic Ocean circulation on the biogeochemistry of mercury during the last two glacial/interglacial cycles**. Quaternary Science Reviews 239 (2020) 106368. https://doi.org/10.1016/j.quascirev.2020.106368

Kirill I. Aksentov, Valentina V. Sattarova. **Mercury geochemistry of deep-sea sediment cores from the Kuril area, northwest Pacific**. Progress in Oceanography 180 (2020) 102235. https://doi.org/10.1016/j.pocean.2019.102235

2019

Federico Floreani, Alessandro Acquavita, Elisa Petranich, StefanoCovelli. **Diurnal fluxes of gaseous elemental mercury from the water-air interface in coastal environments of the northern Adriatic Sea**. Science of the Total Environment, 2019, 668, 925-935. https://doi.org/10.1016/j.scitotenv.2019.03.012

V. Kalinchuk, K. Aksentov, V. Karnaukh. **Gaseous elemental mercury (Hg(0)) in the surface air over the Sea of Japan, the Sea of Okhotsk and the Kuril-Kamchatka sector of the Pacific Ocean in August–September 2017**. Chemosphere, 2019, 224, 668-679. https://doi.org/10.1016/j.chemosphere.2019.02.185

Fadina, O.A., Venancio, I.M., Belem, A., Silveira, C.S., Bertagnolli, D. de C., Silva-Filho, E.V., Albuquerque, A.L.S. **Paleoclimatic controls on mercury deposition in northeast Brazil since the Last Interglacia**l. Quaternary Science Reviews, 2019, 221, 105869. https://doi.org/10.1016/j.quascirev.2019.105869

2017

V. Kalinchuk, E. Lopatnikov, A. Astakhov. **Gradient measurements of gaseous elemental mercury (Hg^0) in the marine boundary layer of the northwest Sea of Japan (East Sea).** Environmental Pollution, 2017, 237. https://doi.org/10.1016/j.envpol.2017.11.055

Koukina S. E., Lobus N. V., Peresypkin V. I., Dara O. M., Smurov A. V. **Abundance, distribution and bioavailability of major and trace elements in surface sediments from the Cai River estuary and Nha Trang Bay (South China Sea, Vietnam)**. Estuarine, Coastal and Shelf Science. 2017. V. 198, B 450–460. https://doi.org/10.1016/j.ecss.2016.03.005

E. Bagnato, E. Oliveri, A. Acquavita, S. Covelli, E. Petranich, M. Barra, F. Italiano, F. Parello, M. Sprovieri. **Hydrochemical mercury distribution and air-sea exchange over the submarine hydrothermal vents off-shore Panarea Island (Aeolian arc, Tyrrhenian Sea)**. Marine Chemistry, 2017, 194, 63-78. https://doi.org/10.1016/j.marchem.2017.04.003

2015

Zhijia Ci, Chunjie Wang, Zhangwei Wang, Xiaoshan Zhang. **Elemental mercury (Hg(0)) in air and surface waters of the Yellow Sea during late spring and late fall 2012: Concentration, spatial-temporal distribution and air/sea flux.** Chemosphere 119 (2015) 199–208. https://doi.org/10.1016/j.chemosphere.2014.05.064

Wang Z. H., Feng J., Nie X. P. **Recent environmental changes reflected by metals and biogenic elements in sediments from the Guishan Island, the Pearl River Estuary, China.** Estuarine, Coastal and Shelf Science, 2015, 164, 493–505. https://doi.org/10.1016/j.ecss.2015.08.002

G. Saviozzi; F. Bartaloni; F. Fornai; C. Laschi; P. Dario; N. Mashyanov; S. Sholupov; S. Pogarev, et al. **An in-situ, real-time Device for Hg Monitoring in Deep Waters**. OCEANS 2015 - Genova, 2015, 1-5. https://doi.org/10.1109/OCEANS-Genova.2015.7271610

2014

Kalinchuk V. V., Astakhov A. S. **Atmochemical mercury dispersion aureoles over active geologic structures of the northern Sea of Japan**. Russian Geology and Geophysics, 2014, 55(12), 1379–1386. https://doi.org/10.1016/j.rgg.2014.11.002

2013

Bagnato E., Sproveri M., Barra M., Bitetto M., Bonsignore M., Calabrese S., Di Stefano V., Oliveri E., Parello F., Mazzola S. **The sea–air exchange of mercury (Hg) in the marine boundary layer of the Augusta basin (Southern Italy): Concentrations and evasion flux**. Chemosphere, 2013, 93, № 9, 2024–2032. https://doi.org/10.1016/j.chemosphere.2013.07.025

Kotnik J., Horvat M. **Dissolved gaseous Hg (DGM) in the Mediterranean surface and deep waters**. E3S Web of Conferences. EDP Sciences, 2013. – V. 1. – Paper 17008. https://doi.org/10.1051/e3sconf/20130117008

Nerentorp M., Gårdfeldt K., Wangberg I. **Comparison of two measurement methods of dissolved gaseous mercury concentrations and estimations of supersaturation grade and mercury fluxes during a research campaign at the Mediterranean Sea**. Proc. 16th Internat. Conference on Heavy Metals in the Environment. – EDP Sciences, 2013, V. 1, Paper 32007. https://doi.org/10.1051/e3sconf/20130132007

Lacerda L. D., Campos R. C., Santelli R. E. **Metals in water, sediments, and biota of an offshore oil exploration area in the Potiguar Basin, Northeastern Brazil.** Environ Monit Assess, 2013, 185, 4427–4447. https://doi.org/10.1007/s10661-012-2881-9

Wang Z.H., Feng J., Jiang T., Gu Y.G. **Assessment of metal contamination in surface sediments from Zhelin Bay, the South China Sea**. Marine Pollution Bulletin, 2013, 76, № 1, 383–388. https://doi.org/10.1016/j.marpolbul.2013.07.050

2012

Aksentov K.I., Kalinchuk V.V. **Atomic mercury distribution features in the surface air layer in the Sea of Japan in the fall of 2010**. Russian Meteorology and Hydrology, 2012, 37, № 10, 674–680. https://doi.org/10.3103/S1068373912100056

Cogua P., Campos-Campos N. H., Duque G. **Concentración de mercurio total y metilmercurio en sedimento y seston de la Bahía de Cartagena, Caribe Colombiano (Total mercury and methylmercury concentration in sediment and seston of Cartagena Bay, Colombian Caribbean)**. Boletín de Investigaciones Marinas y Costeras – INVEMAR, 2012, 41, № 2, 267–285. (In Spanish). www.scielo.org.co/scielo.php?script=sci_arttext&pid=S0122-97612012000200002&lng=en

Josefsson S., Schaanning M., Samuelsson G. S., Gunnarsson J. S., Olofsson I., Eek E., Wiberg K. **Capping efficiency of various carbonaceous and mineral materials for in situ remediation of polychlorinated dibenzo-p-dioxin and dibenzofuran contaminated marine sediments: sediment-to-water fluxes and bioaccumulation in Boxcosm tests**. Environmental Science & Technology, 2012, 46, № 6, 3343−3351. https://doi.org/10.1021/es203528v

Zhao L., Yang F., Yan X., Huo Z., Zhang G. **Heavy metal concentrations in surface sediments and Manila clams (Ruditapes philippinarum) from the Dalian coast, China after the Dalian port oil spil**l. Biological Trace Element Research, 2012, 149, № 2, 241–247. https://doi.org/10.1007/s12011-012-9412-y

2011

Astakhov, A.S., Ivanov, M.V. & Li, B.Y. **Hydrochemical and atmochemical mercury dispersion zones over hydrothermal vents of the submarine Piip Volcano in the Bering Sea**. Oceanology 51, 826 (2011). https://doi.org/10.1134/S0001437011050031

Nguyen D. L., Kim J. Y., Shim S.-G., Zhang X.-S. **Ground and shipboard measurements of atmospheric gaseous elemental mercury over the Yellow Sea region during 2007–2008**. Atmospheric Environment. – 2011, 45, № 1, 253–260. https://doi.org/10.1016/j.atmosenv.2010.07.021

Z.J. Ci, X.S. Zhang, Z.W. Wang, Z.C. Niu, X.Y. Diao and S. W. Wang. **Distribution and air-sea exchange of mercury (Hg) in the Yellow Sea.** Atmos. Chem. Phys. Discuss., 11, 1511–1542, 2011. https://doi.org/10.5194/acpd-11-1511-2011

Z.J. Ci, X.S. Zhang, Z.W. Wang. **Elemental mercury in coastal seawater of Yellow Sea, China: Temporal variation and air–sea exchange**. Atmospheric Environment, 2011, 45, 1, 183–190. https://doi.org/10.1016/j.atmosenv.2010.09.025

Ci Z.J., Zhang X.S., Wang Z W., Niu Z.C. **Atmospheric gaseous elemental mercury (GEM) over a coastal/rural site downwind of East China: Temporal variation and long-range transport**. Atmospheric Environment, 2011, 45(15), 2480–2487. https://doi.org/10.1016/j.atmosenv.2011.02.043

2008

Polyakov D. M., Aksentov K. I., Ivanov M. V. **Mercury in the bottom sediments of the marginal filter of the Razdol'naya River, Amur Bay**. Geochemistry International, 2008, 46, № 6, 614–621. https://doi.org/10.1134/S0016702908060074

2007

Astakhov A. S., Wallmann K., Ivanov M. V., Kolesov G. M., Sattarova V. V. **Distribution and accumulation rate of Hg in the upper quaternary sediments of the Deryugin Basin, Sea of Okhotsk**. Geochemistry International, 2007, 45, № 1, 47–61. https://doi.org/10.1134/S0016702907010041

Mercury Analytics

2026

Haraguchi, K., Sakamoto, M., Nagasaka, H., Uchida, K., Ito, Y., Horvat, M., ... & Nakamura, M. **Method development and production of an ambient-stable blood certified reference material for total mercury, methylmercury, and trace elements**. Analytica Chimica Acta, 345580, 2026. https://doi:10.1016/j.aca.2026.345580

2025

Tong, J., Li, H., Jin, R., Liu, X., Hu, H., Duan, Y., ... & Han, L. **KCl Supported by γ-Al_2O_3 for Selective Adsorption of Gaseous Oxidized Mercury: Flue Gas Influence and Application**. Asia-Pacific Journal of Chemical Engineering, 2025, e70001. https://doi:10.1002/apj.70001

Tong, J., Li, H., Jin, R., Liu, X., Hu, H., Duan, Y., ... & Han, L. **KCl supported by γ- Al_2O_3 for selective adsorption of gaseous oxidized mercury: Preparation and adsorption mechanism**. Asia-Pacific Journal of Chemical Engineering, 2025, e3161. https://doi:10.1002/apj.3161

Cao, F., Sun, R., Schneider, L., Zhang, Y., Li, S., Yan, R., ... & Liu, Y. **A digestion-purging-trapping method for precise stable mercury isotope measurements of natural carbonates**. Journal of Analytical Atomic Spectrometry, 2025, 40(5), 1373-1382. https://doi:10.1039/D5JA00063G

2024

Shuvaeva, O. V., Bekesha, I. A., & Troitskii, D. Y. **New advances in the enhancement of direct mercury speciation in solid matter on the example of HgCl, CH_3HgCl, HgS and $HgSO_4$ using programmable thermal release in combination with electrothermal atomic absorption spectrometry**. Microchemical Journal, 2024, 207, 111755. https://doi:10.1016/j.microc.2024.111755

de Souza, J.P.R.; Garnier, J.; Quintarelli, J.M.; de Sousa Tonhá, M.; Roig, H.L.; Seyler, P.; de Souza, J.R. **Adapted Sequential Extraction Protocol to Study Mercury Speciation in Gold Mining Tailings: Implications for Environmental Contamination in the Amazon**. Toxics, 2024, 12, 326. https://doi.org/10.3390/toxics12050326

Modise, I.M., Panichev, N., & Mandiwana, K.L. T**he application of aluminium powder as an accumulation medium of mercury from air**. Atmosphere, 2024, 15(3), 368. https://doi.org/10.3390/atmos15030368

Zhou, Y., Li, H., Hu, H., & Duan, Y. **$HgCl_2$ Calibration Gas Generated by a Solid Oxidant**. Energy & Fuels, 2024. https://doi.org/10.1021/acs.energyfuels.3c04693

Andron, T.D., Corns, W.T., Živković, I., Ali, S.W., Vijayakumaran Nair, S., Horvat, M. **A traceable and continuous flow calibration method for gaseous elemental mercury at low ambient concentrations**. Atmos. Meas. Tech., 2024, 17, 1217–1228. https://doi.org/10.5194/amt-17-1217-2024

Li, H., Sun, L., Liu, X., Ding, X., Shen, A., Jin, R., ... & Duan, Y. **High temperature reduction of divalent mercury to elemental mercury for Hg-CEMS**. Fuel, 2024, 358, 130232. https://doi.org/10.1016/j.fuel.2023.130232

2023

Andron, T. D., Corns, W. T., Živković, I., Ali, S. W., Vijayakumaran Nair, S., & Horvat, M. **Traceable and continuous flow calibration method for gaseous elemental mercury at low ambient concentrations**. Atmospheric Measurement Techniques Discussions, 2023, 1-21. https://doi.org/10.5194/amt-2023-169

Svanberg, S. **Monitoring Atmospheric Atomic Mercury by Optical Techniques**. Atmosphere, 2023, 14(7), 1124. https://doi.org/10.3390/atmos14071124

Liang, X., Johs, A., Abernathy, M.J., Zhao, J., Du, H., Ku, P., ... & Gu, B. **High methylation potential of mercury complexed with mixed thiolate ligands by Geobacter sulfurreducens PCA**. Geochimica et Cosmochimica Acta, 2023, 342, 74-83. https://doi.org/10.1016/j.gca.2022.12.008

Franco, C.R., Miranda-Andrades, J.R., Toloza, C. A., Larrudé, D.G., Maqueira-Espinosa, L., Aucelio, R.Q., ... & Pedrozo-Peñafiel, M. J. **Determination of thiomersal and mercurial residues by photo-degradation and flow injection analysis with luminescence probing using carbon quantum dots prepared from thiourea**. Talanta Open, 2023, 100184. https://doi.org/10.1016/j.talo.2023.100184

2022

Marrugo-Madrid, S., Fontàs, C., Kurt, G., Salazar-Camacho, C., Salas-Moreno, M., Gutierrez-Mosquera, H., ... & Díez, S. **Benzoylthiourea based polymers as new binding agents for diffusive gradients in thin films technique in labile mercury determination in freshwaters.** Environmental Technology & Innovation, 2022, 28, 102911. https://doi.org/10.1016/j.eti.2022.102911

Sholupov S.E., Ryzhov V.V., Pogarev S.E., Mashyanov N.R. **Automatic monitors for direct continuous mercury measurement in ambient air, hydrocarbon, and industrial gases.** Limnology and Freshwater Biology, 2022 (3), 1349-1351. https://doi.org/10.31951/2658-3518-2022-A-3-1349

Dobryakova, N. N., Golynets, O. S., Lavrinenko, A. A., Vishnevskaya, E. P., & Epshtein, S. A. **Standard test method for mercury content evaluation in solid mineral fuels.** Limnology and Freshwater Biology, 2022, 1374-1375. https://doi.org/10.31951/2658-3518-2022-A-3-1374

M. Stelling, A. Biezeman, E. Korthagen, G. Verstappen. **On-site detection of mercury**. Netherlands Forensic Institute, Technical Report ISFP-AG-OC-ENV-869173, 2022. https://www.researchgate.net/publication/359134797_On-site_detection_of_mercury

Spearman, S.; Bartrem, C.; Sharshenova, A.A.; Salymbekova, K.S.; Isirailov, M.B.; Gaynazarov, S.A.; Gilmanov, R.; von Lindern, I.H.; von Braun, M.; Möller, G. **Comparison of X-ray Fluorescence (XRF) and Atomic Absorption Spectrometry (AAS) Results for an Environmental Assessment at a Mercury Site in Kyrgyzstan**. Appl. Sci. 2022, 12, 1943. https://doi.org/10.3390/app12041943

Padilha, J. D. S., Azevedo, M. F., Miranda-Andrades, J. R., De Falco, A., Kai, J., & Aucelio, R. Q. **Determination of methylmercury in produced water after liquid-liquid extraction using a photoluminescent probe based on the selective quenching of an Eu (III) β-diketonate complex**. Talanta, 2022, 123406. https://doi.org/10.1016/j.talanta.2022.123406

2021

Sergey S. Volynkin, Pavel A. Demakov, Olga V. Shuvaeva, Konstantin A. Kovalenko. **Metal-organic framework application for mercury speciation using solid phase extraction followed by direct thermal release–electrothermal atomization atomic absorption spectrophotometric detection (ETA AAS)**. Analytica Chimica Acta, 2021, 1177, 338795. https://doi.org/10.1016/j.aca.2021.338795

Jiawei Wang, Liyuan Liu, Siqi Li, Yang Chen, Tao Wang, Yongsheng Zhang. **Mercury emissions and distribution in a waste incineration plant based on the 30B and Ontario Hydro methods**. J. Cleaner Production, 2021, 328, 2021, 129663. https://doi.org/10.1016/j.jclepro.2021.129663

Iris de Krom, Wijnand Bavius, Ruben Ziel, Evtim Efremov, Davina van Meer, Peter van Otterloo, Inge van Andel, Deborah van Osselen, Maurice Heemskerk, Adriaan M.H. van der Veen, Matthew A. Dexter, Warren T. Corns, Hugo Ent. **Primary mercury gas standard for the calibration of mercury measurements.** Measurement, 2021, 169, 108351. https://doi.org/10.1016/j.measurement.2020.108351

de Krom, I., Bavius, W., Ziel, R., McGhee, E. A., Brown, R. J. C., Živković, I., Gačnik, J., Fajon, V., Kotnik, J., Horvat, M., and Ent, H. **Comparability of calibration strategies for measuring mercury concentrations in gas emission sources and the atmosphere**. Atmos. Meas. Tech., 2021, 14, 2317–2326, https://doi.org/10.5194/amt-14-2317-2021

GOST R 59176-2020 Solid mineral fuels. Determination of mercury by direct combustion. National Standard, 2021. https://docs.cntd.ru/document/573219579

2020

K. Haraguchi, M. Sakamoto, A. Matsuyama, M. Yamamoto, D.T. Hung, H. Nagasaka, K. Uchida, Y. Ito, H. Kodamatani, M. Horvat, H.M. Chan, V. Rand, C.M. Cirtiu, B-G. Kim, F. Nielsen, A. Yamakawa, N. Mashyanov, N. Panichev, E. Panova, T. Watanabe, N. Kaneko, J. Yoshinaga, R.F. Herwati, A.E. Suoth, H. Akagi. **Development of Human Hair Reference Material Supporting the Biomonitoring of Methylmercury**. Analytical Sciences, 2020, 36(5), 561. https://doi.org/10.2116/analsci.19SBP07

Sari Saxholm, Timo Rajamäki, Jussi Hämäläinen, Panu Hildén. **Dynamic calibration method for reactive gases. Measurement Science and Technology,** 2020, 31, 3. https://doi.org/10.1088/1361-6501/ab4d68

de Krom, I., Bavius, W., Ziel, R., McGhee, E. A., Brown, R. J. C., Živković, I., Gačnik, J., Fajon, V., Kotnik, J., Horvat, M., and Ent, H. **Comparability of calibration strategies for measuring mercury concentrations in gas emission sources and the atmosphere**. Atmos. Meas. Tech. Discuss. https://doi.org/10.5194/amt-2020-314 , in review, 2020.

Berisha, S., Živković, I., Kotnik, J. et al. **Quantification of total mercury in samples from cement production processing with thermal decomposition coupled with AAS**. Accred Qual Assur., 2020, 25, 233–242. https://doi.org/10.1007/s00769-020-01432-w

Jarol R. Miranda-Andrades, Sonia Letichevsky, Dunieskys R. Gonzalez Larrude, Ricardo Q. Aucelio. **Photo-generation of mercury cold vapor mediated by graphene quantum dots/TiO2 nanocomposite: On line time-resolved speciation at ultra-trace levels**. Analytica Chimica Acta. 2020, 1127, 256-268. https://doi.org/10.1016/j.aca.2020.06.048

Guangyu Zhao, Zheng Duan, Ming Lian, Sune Svanberg. **Atmospheric mercury in China studied with differential absorption LIDAR**. EPJ Web Conferences 237, 03003, ILRC 29, 2020. https://doi.org/10.1051/epjconf/202023703003

2019

The U.S. Environmental Protection Agency. **National Elemental Mercury Response Guidebook**. March, 2019. https://response.epa.gov/MercuryResponseGuidebook.htm

Jarol R. Miranda-Andrades, Sarzamin Khan, Carlos A.T. Toloza, Roberta M. Maciel, Rainério Escalfoni Jr, Maria Luiza Bragança Tristão, Ricardo Q. Aucelio. **Speciation and ultra trace determination of mercury in produced waters from offshore drilling operations using portable instrumentation and matrix-matching calibration**. Microchemical Journal, 2019, 146, 1072-1082. https://doi.org/10.1016/j.microc.2019.02.045

2016

A. Weigelt, F. Slemr, R. Ebinghaus, N. Pirrone, J. Bieser, J. Bödewadt, G. Esposito, P.F. J. van Velthoven. **Mercury emissions of a coal-fired power plant in Germany**. Atmos. Chem. Phys., 2016, 16, 13653–13668. https://doi.org/10.5194/acp-16-13653-2016

2015

G. Revalde, S. Sholupov, A. Ganeev, S. Pogarev, V. Ryzhov, A. Skudra. **Use of radiation sources with mercury isotopes for real-time highly sensitive and selective benzene determination in air and natural gas by differential absorption spectrometry with the direct Zeeman effect**. Analytica Chimica Acta, 2015, 887, 172-178. https://doi.org/10.1016/j.aca.2015.07.021

G. Saviozzi; F. Bartaloni; F. Fornai; C. Laschi; P. Dario; N. Mashyanov; S. Sholupov; S. Pogarev, et al. **An in-situ, real-time Device for Hg Monitoring in Deep Waters**. OCEANS 2015 - Genova, 2015, 1-5. https://doi.org/10.1109/OCEANS-Genova.2015.7271610

2014

N. Panichev, M.M. Kalumba, K.L. Mandiwana. **Solid phase extraction of trace amount of mercury from natural waters on silver and gold nanoparticles**. Analytica Chimica Acta, 2014, 813, 56-62. https://doi.org/10.1016/j.aca.2014.01.011

Zheng, J., Pelchat, P., Vaive, J., Bass, D., Ke, F. **Total mercury in snow and ice samples from Canadian High Arctic ice caps and glaciers: A practical procedure and method for total Hg quantification at low pgg−1 level**. Sci. Total Environment, 2014, 468-469, 487–494. https://doi.org/10.1016/j.scitotenv.2013.08.078

2013

Ramírez, C.; Olarte, E.; Téllez, E.; Palma, M. **Validación del método analítico para la determinación de mercurio total en sangre humana por espectrofotometría de absorción atómica Zeeman RA-915+ con el módulo de pirólisis PYRO-915+**. Rev Colomb Quim., 2013. 42(3), 11-16. On-line version ISSN 2357-3791

Park, C. H., Eom, Y., Lee, L. J.-E., & Lee, T. G. **Simple and accessible analytical methods for the determination of mercury in soil and coal samples**. Chemosphere, 2013, 93(1), 9–13. https://doi.org/10.1016/j.chemosphere.2013.04.044

Zheng W., Lin H., Mann B. F., Liang L., Gu B. **Oxidation of dissolved elemental mercury by thiol compounds under anoxic conditions**. Environmental Science & Technology, 2013, 47(22), 12827–12834. https://doi.org/10.1021/es402697u

2012

Reynaldo Forte, Jr., Jeffrey V. Ryan, Travis P. Johnson, and Peter H. Kariher. **The United States Environmental Protection Agency's Mercury Measurement Toolkit: An Introduction**. Energy Fuels 2012, 26, 4643−4646. https://doi.org/10.1021/ef3001949

Fang P., Cen C.-P., Tang Z.-J. **Experimental study on the oxidative absorption of Hg0 by $KMnO_4$ solution.** Chemical Engineering Journal, 2012, 198–199, 95–102. https://doi.org/10.1016/j.cej.2012.05.072

He F., Wang W., Moon J.-W., Howe J., Pierce E. M., Liang L. **Rapid removal of Hg(II) from aqueous solutions using thiol-functionalized Zn-doped biomagnetite particles**. Applied Materials & Interfaces, 2012, 4(8), 4373–4379. https://doi.org/10.1021/am301031g

Kelly J. G., Han F. X., Su Y., Xia Y., Philips V., Shi Z., Monts D. L., Pichardo S. T., Xia K. **Rapid determination of mercury in contaminated soil and plant samples using portable mercury direct analyzer without sample preparation, a comparative study**. Water, Air & Soil Pollution, 2012, 223(5), 2361–2371. https://doi.org/10.1007/s11270-011-1030-3

Pontes F. V. M., Carneiro M. C., Vaitsman D. S., Monteiro M. I. C., Neto A. A., de Souza E. M. F., Tristão M. L. B. **A new on-line version of the gold amalgamation trap for interference-free**

determination of Hg0 in crude oil and related products by Zeeman CV-AAS. J. Analytical Atomic Spectrometry, 2012, 27(10), 1794–1798. https://doi.org/10.1039/C2JA30098B

Wang J., Feng X., Anderson C. W. N., Wang H., Zheng L., Hu T. **Implications of mercury speciation in thiosulfate treated plants**. Environmental Science & Technology, 2012, 46(10), 5361–5368. https://doi.org/10.1021/es204331a

2011

Jennifer Baeuml, Stephan Bose-O'Reilly, Beate Lettmeiea, Alexandra Maydl, Katalin Messerer, Gabriele Roider, Gustav Drasch, Uwe SiebertInternat. **Applicability of two mobile analysers for mercury in urine in small-scale gold mining areas**. Journal of Hygiene and Environmental Health, 2011, 215, 64– 67. https://doi.org/10.1016/j.ijheh.2011.06.005

John G. Kelly, Fengxiang X. Han, Yi Su, Yunjun Xia, Valerie Philips, Zhiqi Shi, David L. Monts, Sergio T. Pichardo, Kang Xia. **Rapid Determination of Mercury in Contaminated Soil and Plant Samples Using Portable Mercury Direct Analyzer without Sample Preparation, a Comparative Study**. Water Air Soil Pollut., 2012. 223, 2361–2371. https://10.1007/s11270-011-1030-3

Savonina E.Yu., Fedotov P.S., Laperdina T.G. **Dynamic fractionation of mercury species in soils and bottom deposits using rotating coiled columns**. Journal of Analytical Chemistry, 2011, 66(2), 119–124. https://doi.org/10.1134/S1061934811020146

2010

EUROPEAN STANDARD **EN 15852:2010 Ambient air quality - Standard method for the determination of total gaseous mercury**

ASTM **D7622 – 10. Standard Test Method for Total Mercury in Crude Oil Using Combustion and Direct Cold Vapor Atomic Absorption Method with Zeeman Background Correction**

Richard J. C. Brown, N. Pirrone, C. van Hoekc F. Sprovieri, R. Fernandez and K. Tote. **Standardisation of a European measurement method for the determination of total gaseous mercury: Results of the field trial campaign and determination of a measurement uncertainty and working range**. J. Environ. Monitoring, 2010, 12(3), 689-95. https://doi.org/10.1039/b924955a

Constance Senior, Martin Denison, Michael Bockelie, Adel Sarofim, Joseph Siperstein, Qiao He. **Modeling of thermal desorption of Hg from activated carbon**. Fuel Processing Technology, 2010, 91, 1282–1287. https://doi.org/10.1016/j.fuproc.2010.04.010

Ivannikova N.V., Shiryaeva O.A., Karpov Yu.A. **Atomic absorption determination of mercury in solid samples of placer gold**. Inorganic Materials, 2010, 46(14), 1499–1502. https://doi.org/10.1134/S0020168510140050

2009

Campos R. C., Gonçalves R. A., Brandão G. P., Azevedo M. S., Oliveira F., Wasserman J. **Methylmercury determination using a hyphenated high performance liquid chromatography ultraviolet cold vapor multipath atomic absorption spectrometry system**. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64(6), 506–512. https://doi.org/10.1016/j.sab.2009.05.021

2008

Eom Y., Jeon S. H., Ngo T. A., Kim J., Lee T. G. **Heterogeneous mercury reaction on a selective catalytic reduction (SCR) catalyst.** Catalysis Letters, 2008, 121(3–4), 219–225. https://doi.org/10.1007/s10562-007-9317-0

2007

Li Y., Wu C.-Y. **Kinetic study for photocatalytic oxidation of elemental mercury on a SiO_2–TiO_2 nanocomposite**. Environmental Engineering Science, 2007, 24(1), 3–12. https://doi.org/10.1089/ees.2007.24.3

2005

Ganeev A.A., Pogarev S.E., Ryzhov V.V., Sholupov S.E., Dreval T.V. **The new method for direct and express determination of mercury in oil, gas condensate, and biological samples**. Journal of Ecological Chemistry, 1995, 4, 122–126

2004

EPA Innovative Technology Verification Report. Field Measurement Technology for Mercury in Soil and Sediment. **Field Measurement Technology for Mercury in Soil and Sediment Ohio Lumex's RA-915+/RP-91C Mercury Analyzer**. EPA/600/R-03/147, May 2004.

S. Sholupov, S. Pogarev, V. Ryzhov, N. Mashyanov, A. Stroganov. **Zeeman atomic absorption spectrometer RA-915 for direct determination of mercury in air and complex matrix samples**. Fuel Processing Technology, 2004, 85, 473-485. https://doi.org/10.1016/j.fuproc.2003.11.003

S. Sholupov, S. Pogarev, V. Ryzhov, A. Stroganov, N. Mashyanov, J. Siperstein. **Multifunctional Zeeman mercury analytical system RA-915+: practical experience and future trends**. RMZ – Materials and Geoenvironment, 2004, 51(3), 2019-2021. http://www.rmz-mg.com/contents.htm

Joanna Burger and Michael Gochfeld**. Mercury in canned tuna: white versus light and temporal variation**. Environmental Research, 2004, 96, 239–249. https://doi.org/10.1016/j.envres.2003.12.001

2001

M. Markelov, O.A. Bershevits. **Methodologies of quantitative headspace analysis using vapor phase sweeping**. Analytica Chimica Acta, 2001, 432, 213–227. https://doi.org/10.1016/S0003-2670(00)01374-X

1995

Ganeev A.A., Sholupov S.E. **Zeeman atomic-absorption spectrometry using high frequency modulated light polarization**. Spectrochim. Acta, 1995, 50B, 1227-1236. https://10.1016/0584-8547(95)01316-7

1992

Ganeev A.A., Sholupov S.E. **New Zeeman atomic absorption approach for mercury isotope analysis. Spectrochim. Acta**, 1992, 47B, 1325-1338. https://10.1016/0584-8547(92)80122-W

Mercury Emissions

2026

Kalinchuk, V. **Distribution, sources, and transport pathways of atmospheric gaseous elemental mercury: interhemispheric differences during a transatlantic cruise from the Baltic Sea to the Southern Ocean in 2019–2020**. Environmental Pollution, 2026, 400, 128287. https://doi:10.1016/j.envpol.2026.128287

Agarwal, R., & Aggarwal, S. G. **Mercury in ambient air: a review on sources, speciation, legislation and measurement methods**. Asian Journal of Atmospheric Environment, 20(1), 8, 2026. https://doi:10.1007/s44273-026-00087-2

2025

N. Mashyanov, S. Sholupov, S. Pogarev, V. Ryzhov, V. Obolkin, T. Khodzher, A. Yasutake, A. Matsuyama, L. Martin and C. Labuschagne. **Background Air Monitoring: Mercury Emissions Sources Revealing**. In: Zhang, Z., et al. Dynamic Evolution of Atmospheric, Ecological, and Hydrological Systems in Circum-Mediterranean Regions. MedGU 2023. Advances in Science, Technology & Innovation. V.1. 273-278. Springer, Cham. 2025. https://doi:10.1007/978-3-031-86777-4_51

Lenzi, A., Paci, M., Bettini, A., Caprai, A., D'Ulivo, A., Onor, M., ... & Campanella, B. **Sampling and analysis of H_2S and Hg from evaporative geothermal cooling towers: The Italian experience**. Geothermics, 2025, 129, 103291. https://doi:10.1016/j.geothermics.2025.103291

Lyu, R, Xue, L, Wu, X, Mu, Y, Cheng, J, Zhou, L, Wang, Y & Harrison, RM. **Mercury Pollution in a Coastal City of Northern China Driven by Temperature Re-Emission, Coal Combustion, and Port Activities**. Atmosphere, 2025, 16(10), 1121. https://doi:10.3390/atmos16101121

Guan, H., Zhong, L., & Pan, W. P. **Evaluation of measurement methods for the finest particle size distribution of condensable particulate matter in surface aggregation and spatial suspension state**. Separation and Purification Technology, 2025, 132673. https://doi:10.1016/j.seppur.2025.132673

2024

Bencardino, M., D'Amore, F., Angot, H., Angiuli, L., Bertrand, Y., Cairns, W., ... & Pirrone, N. **Patterns and trends of atmospheric mercury in the GMOS network: Insights based on a decade of measurements**. Environmental Pollution, 2024, 363(2), 125104. https://doi:10.1016/j.envpol.2024.125104

Malasani, C. R., Swain, B., Patel, A., Pulipatti, Y., Anchan, N. L., Sharma, A., ... & Gunthe, S. S. **Modeling of mercury deposition in India: evaluating emission inventories and anthropogenic impacts**. Environmental Science: Processes & Impacts, 2024, 26(11), 1999-2009. https://doi:10.1039/D4EM00324A

2023

Zhao, J., Wu, X., Ma, Y., Liu, W., Li, Z., & Zhao, S. **Controlled synthesis of CuS with different morphology and pollution control of Hg0 in non-ferrous smelting flue gas**. Fuel, 2023, 351, 128921. https://doi.org/10.1016/j.fuel.2023.128921

Sun, R., Cao, F., Dai, S., Shan, B., Qi, C., Xu, Z., ... & Chen, J. **Atmospheric Mercury Isotope Shifts in Response to Mercury Emissions from Underground Coal Fires**. Environmental Science & Technology, 2023. https://doi.org/10.1021/acs.est.2c08637

Chuai, X., Yang, Q., Zhang, T., Xiao, R., Cui, X., Yang, J., ... & Zhang, J. **Migration and control of mercury in hazardous chemical waste incineration**. Fuel, 2023, 334, 126706. https://doi.org/10.1016/j.fuel.2022.126706

2022

Ding, Z., Yang, C., Zhang, H., Mei, J., Wang, J., & Yang, S. **New utilizations of natural $CuFeS_2$ as the raw material of Cu smelting for recovering Hg0 from Cu smelting flue gas**. Fuel, 2022, 126997. https://doi.org/10.1016/j.fuel.2022.126997

Hong, Q., Zhang, X., Zhu, R., Wang, C., Mei, J., & Yang, S. **Resource utilization of natural pyrite (FeS_2) as the tailings after flotation of natural sphalerite (ZnS) for reclaiming high concentrations of gaseous Hg0 from Zn smelting flue gas**. Chemical Engineering Journal, 2022, 427, 131644. https://doi.org/10.1016/j.cej.2021.131644

Agarwalla, H., Senapati, R.N. & Das, T.B**. Investigation on mercury flow and emission in integrated primary iron production process**. J Mater Cycles Waste Manag., 2022, 24, 2636–2643. https://doi.org/10.1007/s10163-022-01510-w

Huang, W., Xu, H., Wang, H., Hong, Q., Qu, Z., & Yan, N. **Induced adsorption and agglomeration under bipolar corona discharge to enhance the simultaneous removal of trace mercury and fine particles**. Fuel, 2022, 326, 125069. https://doi.org/10.1016/j.fuel.2022.125069

Zhao, S., Luo, H., Ma, A., Sun, Z., & Zheng, R. **Experimental study on mercury removal from coal-fired flue gas by sulfur modified biomass coke with mechanochemical method**. Fuel, 2022, 309, 122201. https://doi.org/10.1016/j.fuel.2021.122201

Li, G., Wang, S., Wu, Q., Li, J., Chen, Z., Li, J., ... & Liu, K. **Mercury emission characteristics and mechanism in the raw mill system of cement clinker production**. Journal of Hazardous Materials, 2022, 430, 128403. https://doi.org/10.1016/j.jhazmat.2022.128403

Jiang, X., & Wang, F. **Experimental study and reaction mechanism on the process of Br addition for mercury emission control**. Chemical Engineering Journal, 2022, 435, 134776. https://doi.org/10.1016/j.cej.2022.134776

Chen, H., Cui, B., Yan, G., Wang, J., Lu, W., Li, Y., ... & Chang, L. **The application of coal liquefaction residue raffinate slag-based sorbents for elemental mercury removal from coal-fired flue gas**. Journal of Environmental Chemical Engineering, 2022, 10(1), 107045. https://doi.org/10.1016/j.jece.2021.107045

B. Muresan, Y. Liu, Q. Le Gac, L. Lumière, V. Cerezo. **In-line measurement of exhaust mercury emissions by an instrumented light-duty vehicle using both on-road and test track experiments**. Science of The Total Environment, 2022, 805, 150265. https://doi.org/10.1016/j.scitotenv.2021.150265

D.V. Yusupov, E.E. Lyapina, E.M. Tursunalieva, N.A. Osipova, N.V. Baranovskaya. **Poplar tree (Populus balsamifera L.) as indicator of mercury emission from a point source**. Chemosphere, 2022, 287(3), 132157, https://doi.org/10.1016/j.chemosphere.2021.132157

2021

Kaiyun Liu, Qingru Wu, Shuxiao Wang, Daiwei Ouyang, et al. **Highly Resolved Inventory of Mercury Release to Water from Anthropogenic Sources in China**. Environ. Sci. Technol., 2021, 55, 20, 13860–13868. https://doi.org/10.1021/acs.est.1c03759

J. Cabassi, S. Venturi, F. Di Bennardo, B. Nisi, F. Tassi, F. Magi, A. Ricci, G. Picchi, O. Vaselli. **Flux measurements of gaseous elemental mercury (GEM) from the geothermal area of "Le Biancane" natural park (Monterotondo Marittimo, Grosseto, Italy): biogeochemical processes controlling**

GEM emission. J. Geochem. Exploration, 2021, 106824. https://doi.org/10.1016/j.gexplo.2021.106824

Esbrí, J. M., Martinez-Coronado, A., Jurado, S. R., García-Noguero, E., Higueras, P. **Uncertainties in the Mercury Mass Balance in a Coal-Based IGCC Power Plant (Puertollano, Spain)**. Energy Engineering, 2021, 118(4), 1223–1235. https://doi.org/10.32604/EE.2021.015781

Bing Li, Hongliang Wang. **Effect of flue gas purification facilities of coal-fired power plant on mercury emission**. Energy Reports, 2021, 7(1), 190-196. https://doi.org/10.1016/j.egyr.2021.01.094

B. Muresan, Y. Liu, Q. Le Gac, L. Lumière, V. Cerezo. **In-line measurement of exhaust mercury emissions by an instrumented light-duty vehicle using both on-road and test track experiments**. Science of The Total Environment, 2021, 805, 150265. https://doi.org/10.1016/j.scitotenv.2021.150265

Li, Z., Chen, X., Liu, W. et al. **Soil and ambient air mercury as an indicator of coal-fired power plant emissions: a case study in North China**. Environ Sci Pollut Res, 2021, 28, 33146–33157. https://doi.org/10.1007/s11356-021-12842-9

Jicheng Xia, Jianxu Wang, Leiming Zhang, Xun Wang, Wei Yuan, Christopher W.N. Anderson, Chaoyue Chen, Tao Peng, Xinbin Feng. **Significant mercury efflux from a Karst region in Southwest China - Results from mass balance studies in two catchments**. Science of The Total Environment, 2021, 769, https://doi.org/10.1016/j.scitotenv.2020.144892

Duan Lei, Sun Xiaohui, Luo Yao, Du Baoyu, Wang Qiong, Liu Kaiyun, Zhang Jiawei, Wu Qingru, Wang Shuxiao. **Soil-atmosphere exchange of gaseous elemental mercury in three subtropical forests with different substrate Hg concentrations**. Atmospheric Environment, 2021, 244, 117869. https://doi.org/10.1016/j.atmosenv.2020.117869

de Krom, I., Bavius, W., Ziel, R., McGhee, E. A., Brown, R. J. C., Živković, I., Gačnik, J., Fajon, V., Kotnik, J., Horvat, M., and Ent, H. **Comparability of calibration strategies for measuring mercury concentrations in gas emission sources and the atmosphere**. Atmos. Meas. Tech., 2021, 14, 2317–2326, https://doi.org/10.5194/amt-14-2317-2021

2020

Iris de Krom, Wijnand Bavius, Ruben Ziel, Elizabeth A. McGhee, Richard J. C. Brown, Igor Živković, Jan Gačnik, Vesna Fajon, Jože Kotnik, Milena Horvat, and Hugo Ent. **Comparability of calibration strategies for measuring mercury concentrations in gas emission sources and the atmosphere.** Atmos. Meas. Tech. Discuss., https://doi.org/10.5194/amt-2020-314, in review, 2020. https://doi.org/10.5194/amt-2020-314

Samantha T. Brown, Kazi M. Hasan, Keegan H. Moody, Danielle C. Loving, Kathryn E. Howe, Alaina G. Dawson, Kevin Drace, Jeffrey D. Hugdahl, Caryn S. Seney, Claudia M. Vega, Luis E. Fernandez, Adam M. Kiefer. **Method for mapping Hg0 emissions from gold shops in artisanal and small-scale gold mining communities.** MethodsX, 7, 2020, 101060. https://doi.org/10.1016/j.mex.2020.101060

Sun, Y., Guo, Z., Du, J., & Zhao, W. **Diffuse emission and transport of gaseous elemental mercury (GEM) in the Mapamyum geothermal system, Western Tibet (China)**. Journal of Volcanology and Geothermal Research, 2020, 106825. https://doi.org/10.1016/j.jvolgeores.2020.106825

Berisha, S., Živković, I., Kotnik, J. et al. **Quantification of total mercury in samples from cement production processing with thermal decomposition coupled with AAS**. Accred Qual Assur., 2020, 25, 233–242. https://doi.org/10.1007/s00769-020-01432-w

Zhao, G., Zhang, W., Duan, Z. et al. **Mercury as a Geophysical Tracer Gas - Emissions from the Emperor Qin Tomb in Xi´an Studied by Laser Radar**. Sci Rep, 2020, 10, 10414. https://doi.org/10.1038/s41598-020-67305-x

2019

Huo, Q., Wang, Y., Chen, H., Han, L., Wang, J., Bao, W., Chang, L., Xie, K. **ZnS/AC sorbent derived from the high sulfur petroleum coke for mercury removal**. Fuel Processing Technology, 2019191, 36–43. https://doi.org/10.1016/j.fuproc.2019.03.025

Shan, B., Wang, G., Cao, F., Wu, D., Liang, W., & Sun, R. **Mercury emission from underground coal fires in the mining goaf of the Wuda Coalfield, China**. Ecotoxicology and Environmental Safety, 2019, 182, 109409. https://doi.org/10.1016/j.ecoenv.2019.109409

Xinyu Li, Zhonggen Li, Tingting Wu, Ji Chen, Chengcheng Fu, Leiming Zhang, Xinbin Feng, Xuewu Fu, Li Tang, Zhikang Wang, Zhibo Wang. **Atmospheric mercury emissions from two pre-calciner cement plants in Southwest China**. Atmospheric Environment, 2019, 199, 177-188. https://doi.org/10.1016/j.atmosenv.2018.11.011

Hui Zhang, Luca Nizzetto, Xinbin Feng, Katrine Borgå, Jonas Sommar, Xuewu Fu, Hua Zhang, Gan Zhang, and Thorjørn Larssen. **Assessing Air–Surface Exchange and Fate of Mercury in a Subtropical Forest Using a Novel Passive Exchange-Meter Device**. Environ.Sci. Technol. 2019, 53, 9, 4869–4879. https://doi.org/10.1021/acs.est.8b06343

Zhonggen Li, Xinyu Li, Jing Liu, Leiming Zhang, Ji Chen, Xinbin Feng. **Stone coal as a potential atmospheric mercury source in Da-Ba-Shan mountain areas, China**. Internat. J. Coal Geology, 2019, 206, 21-30. https://doi.org/10.1016/j.coal.2019.03.007

Back, S.K., Mojammal, A.H. M., Kim, J.H., Kim, Y.H., Seok, K.S., & Seo, Y.C. **Mercury distribution analyses and estimation of recoverable mercury amount from byproducts in primary metal production facilities using UNEP toolkit and on-site measurement**. Journal of Material Cycles and Waste Management, 2019, 21(4), 915-924. https://doi.org/10.1007/s10163-019-00851-3

2018

Shuang Bian, Jiawen Wu, Yongsheng Zhang, Tao Wang, Pauline Norris, and Wei-Ping Pan. **Increasing Recovery Ratios with an Improved European Community Bureau of Reference Method for Mercury Analysis in Flue Gas Desulfurization Gypsum**. Energy Fuels, 2018, 32(8), 8340–8347. https://doi.org/10.1021/acs.energyfuels.8b0182

2017

Pudasainee D., Seo Y. C., Sung J. H., Jang H. N., Gupta R. **Mercury co-beneficial capture in air pollution control devices of coal-fired power plants.** Internat. J. Coal Geology, 2017, 170. 48–53. https://doi.org/10.1016/j.coal.2016.08.013

Han, L., Li, Q., Chen, S. et al. **A Magnetically Recoverable Fe_3O_4–NH_2–Pd Sorbent for Capture of Mercury from Coal Derived Fuel Gas**. Sci Rep, 2017, 7, 7448. https://doi.org/10.1038/s41598-017-07802-8

Zhang, Y., Zhao, L., Guo, R., Wang, J., Cao, Y., Orndorff, W., & Pan, W. **Influences of NO on mercury adsorption characteristics for HBr modified fly ash**. International Journal of Coal Geology, 2017, 170, 77–83. https://doi.org/10.1016/j.coal.2016.10.002

2016

An J., Jiang Y., Zhang Z., Ma X., Wang T., Shang K., Li J. **Oxidation characteristics of mixed NO and Hg0 in coal-fired flue gas using active species injection generated by surface discharge plasma**. Chemical Engineering Journal, 2016, 288, 298–304. https://doi.org/10.1016/j.cej.2015.11.048

Belo L. P., Elliott L. K., Stanger R. J., Wall T. F. **Impacts of sulfur oxides on mercury speciation and capture by fly ash during oxy-fuel PC combustion**. Energy & Fuels, 2016, 30(10), 8658–8664. https://doi.org/10.1021/acs.energyfuels.6b01078

Chen W., Pei Y., Huang W., Qu Z., Hu X., Yan N. **Novel effective catalyst for elemental mercury removal from coal-fired flue gas and the mechanism investigation**. Environmental Science & Technology. 2016, 50(5), 2564–2572. https://doi.org/10.1021/acs.est.5b05564

Yang, Y., Xu, W., Wu, Y., Xiong, J., Zhu, T., Zhou, X., & Tong, L. **Effect of HBr formation on mercury oxidation via $CaBr_2$ addition to coal during combustion**. RSC Advances, 2016, 6(64), 59009–59015. https://doi.org/10.1039/c6ra11468g

Y. Liang, H. Liang, S. Zhu. **Mercury emission from spontaneously ignited coal gangue hill in Wuda coalfield, Inner Mongolia, China**. Fuel, 2016, 182, 525-530. https://doi.org/10.1016/j.fuel.2016.05.092.

A. Weigelt, F. Slemr, R. Ebinghaus, N. Pirrone, J. Bieser, J. Bödewadt, G. Esposito, P.F. J. van Velthoven. **Mercury emissions of a coal-fired power plant in Germany**. Atmos. Chem. Phys., 2016, 16, 13653–13668. https://doi.org/10.5194/acp-16-13653-2016

2015

Oseas García, Marcello M. Veiga, Paul Cordy, Osvaldo E. Suescún, Jorge Martin Molina, Monika Roeser. **Artisanal gold mining in Antioquia, Colombia: a successful case of mercury reduction**. J. Cleaner Production, 2015, 90, 244-252. https://doi.org/10.1016/j.jclepro.2014.11.032

Min H.K., Ahmad T., Kim K.Y., Oh K.J., Lee S.S. **Mercury adsorption characteristics of sulphur-impregnated activated carbon pellets for the flue gas condition of a cement-manufacturing process**. Adsorption Science & Technology, 2015, 33(3), 251–262. https://doi.org/10.1260/0263-6174.33.3.251

Wu Q., Wang S., Hui M., Wang F., Zhang L., Duan L., Luo Y. **New insight into mercury emissions from zinc smelters using mass flow analysis.** Environmental Science & Technology, 2015, 49(6), 3532–3539. https://doi.org/10.1021/es505723a

2014

Liang, Y., Liang, H., & Zhu, S. **Mercury emission from coal seam fire at Wuda, Inner Mongolia, China**. Atmospheric Environment, 2014, 83, 176–184. https://doi.org/10.1016/j.atmosenv.2013.09.001

Bagnato, E., Barra, M., Cardellini, C., Chiodini, G., Parello, F., & Sprovieri, M. **First combined flux chamber survey of mercury and CO_2 emissions from soil diffuse degassing at Solfatara of Pozzuoli crater, Campi Flegrei (Italy): Mapping and quantification of gas release**. J. Volcanology and Geothermal Research, 2014, 289, 26–40. https://doi.org/10.1016/j.jvolgeores.2014.10.017

Chen C., Liu S., Gao Y., Liu Y. **Investigation on mercury reemission from limestone-gypsum wet flue gas desulfurization slurry**. The Scientific World Journal, 2014, 2014, Article ID 581724. https://doi.org/10.1155/2014/581724

2013

Xu, W., Wang, H., Zhu, T., Kuang, J., Jing, P. **Mercury removal from coal combustion flue gas by modified fly ash.** J. Environmental Sciences, 2013, 25(2), 393–398. https://doi.org/10.1016/s1001-0742(12)60065-5

Casasús A., Gruss A., Baun D., Morales M., Mazyck D. **Silica-titania-coated packing: novel solution capable of 90% Hg capture with low operation and maintenance costs**. J. Environmental Engineering, 2013, 139(1), 86–94. https://doi.org/10.1061/(ASCE)EE.1943-7870.0000615

Cordy P., Veiga M., Crawford B., Garcia O., Gonzalez V., Moraga D., Roeser M., Wip D. **Characterization, mapping, and mitigation of mercury vapour emissions from artisanal mining gold shops**. Environmental Research, 2013, 125, 82-91. https://doi.org/10.1016/j.envres.2012.10.015

Fantozzi L., Ferrara R., Dini, F., Tamburello L., Pirrone N., Sprovieri F. **Study on the reduction of atmospheric mercury emissions from mine waste enriched soils through native grass cover in the Mt. Amiata region of Italy**. Environmental Research, 2013, 125, 69–74. https://doi.org/10.1016/j.envres.2013.02.004

Hower J. C., O'Keefe J. M., Henke K. R., Wagner N. J., Copley G., Blake D. R., Garrison T., Oliveira M. L. S., Kautzmann R. M., Silva L. F. O. **Gaseous emissions and sublimates from the Truman Shepherd coal fire, Floyd County, Kentucky: a re-investigation following attempted mitigation of the fire**. International Journal of Coal Geology, 2013, 116, 63–74. https://doi.org/10.1016/j.coal.2013.06.007

Spörl R., Belo L., Shah K., Stanger R., Giniyatullin R., Maier J., Wall T., Scheffknecht G. **Mercury emissions and removal by ash in coal-fired oxy-fuel combustion**. Energy & Fuels, 2013, 28(1), 123–135. https://doi.org/10.1021/ef4014604

Zhang W., Wei W., Hu D., Zhu Y., Wang X. **Emission of speciated mercury from residential biomass fuel combustion in China**. Energy & Fuels, 2013, 27(11), 6792–6800. https://doi.org/10.1021/ef401564r

Zhu W., Sommar J., Li Z., Feng X., Lin C. J., Li G. **Highly elevated emission of mercury vapor due to the spontaneous combustion of refuse in a landfill**. Atmospheric Environment, 2013, 79, 540–545. https://doi.org/10.1016/j.atmosenv.2013.07.016

Zhang Gang; Wang Ning; Ai JianChao; Wang ZhanHua; Wang Yi; Xu DeXuan. **Characteristics of mercury flux between soil and air under the meteorological condition of durative precipitation**. China Environmental Science, 2013, 33(3), 409-415.

2012

Reynaldo Forte, Jr., Jeffrey V. Ryan, Travis P. Johnson, and Peter H. Kariher. **The United States Environmental Protection Agency's Mercury Measurement Toolkit: An Introduction**. Energy Fuels 2012, 26, 4643−4646/ https://doi.org/10.1021/ef3001949

Alexander Romanov, Lesley Sloss, and Wojciech Jozewicz. **Mercury Emissions from the Coal-Fired Energy Generation Sector of the Russian Federation.** Energy Fuels 2012, 26, 4647−4654dx. https://doi.org/10.1021/ef300398q

Lesley Sloss. **Legislation, standards and methods for mercury emissions control**. CCC/195 ISBN 978-92-9029-515-0. https://www.iea-coal.org/report/legislation-standards-and-methods-for-mercury-emission-control-ccc-195/

Engle M. A., Radke L. F., Heffern E. L., O'Keefe J. M. K., Hower J. C., Smeltzer C. D., Hower J. M., Olea R. A., Eatwell R. J., Blake D. R., Emsbo-Mattingly S. D., Stout S. A., Queen g., Aggen K. L., Kolker A., Prakash A., Henke K. R., Stracher G. B., Schroeder P. A., Román-Colón Y., ter Schure A. **Gas emissions,**

minerals, and tars associated with three coal fires, Powder River Basin, USA. Sci. Total Environment, 2012, 420, 146–159. https://doi.org/10.1016/j.scitotenv.2012.01.037

Fang P., Cen C.-P., Tang Z.-J. **Experimental study on the oxidative absorption of Hg0 by $KMnO_4$ solution. Chemical Engineering Journal**, 2012, 198–199, 95–102. https://doi.org/10.1016/j.cej.2012.05.072

Li J.-R., He C., Shang X.-S., Chen J.-S., Yu X.-W., Yao Y.-J. **Oxidation efficiency of elemental mercury in flue gas by SCR De-NOx catalysts. J. Fuel Chemistry and Technology**, 2012, 40(2), 241-246. https://doi.org/10.1016/S1872-5813(12)60012-7

Won J. H., Lee T. G. **Estimation of total annual mercury emissions from cement manufacturing facilities in Korea**. Atmospheric Environment, 2012, 62, 265–271. https://doi.org/10.1016/j.atmosenv.2012.08.035

Zheng Y., Jensen A. D., Windelin C., Jensen F. **Dynamic measurement of mercury adsorption and oxidation on activated carbon in simulated cement kiln flue gas.** Fuel, 2012, 93, 649–657. https://doi.org/10.1016/j.fuel.2011.09.053

2011

Qi Wan, Lei Duan, Kebin He, Junhua Li. **Removal of gaseous elemental mercury over a CeO2–WO3/TiO2 nanocomposite in simulated coal-fired flue gas**. Chemical Engineering Journal, 2011, 170, 512–517. https://doi.org/10.1016/j.cej.2010.11.060

2010

Tanja Ljubic Mlakar, Milena Horvat, Tomaz Vuk, Andrej Stergaršek, Joze Kotnik, Janja Tratnik, Vesna Fajon. **Mercury species, mass flows and processes in a cement plant.** Fuel, 2010, 89, 1936–1945. https://doi.org/10.1016/j.fuel.2010.01.009

Zan Qu, Naiqiang Yan, Ping Liu, Yongfu Guo, Jinping Jia. **Oxidation and Stabilization of Elemental Mercury from Coal-Fired Flue Gas by Sulfur Monobromide**. Environ. Sci. Technol. 2010, 44, 3889–3894. https://doi.org/10.1021/es903955s

Wang J., Wang W., Xu W., Wang X., Zhao S. **Mercury removals by existing pollutants control devices of four coal-fired power plants in China**. Journal of Environmental Sciences (China), 2011, 23(11), 1839–1844. https://doi.org/10.1016/S1001-0742(10)60584-0

Gostomczyk M. A., Lech-Brzyk K. **Flue-gas cleaning after thermal waste utilization**. Environment Protection Engineering, 2010, 36(4), 57–64. http://epe.pwr.wroc.pl/2010/gostomczyk_4-2010.pdf

Kim J.-H., Park J.-M., Lee S.-B., Pudasainee P., Seo Y.-C. **Anthropogenic mercury emission inventory with emission factors and total emission in Korea**. Atmospheric Environment, 2010, 44(23), 2714–2721. https://doi.org/10.1016/j.atmosenv.2010.04.037

Kolesnikov S.P., Rubinskaya T.Ya., Strel'tsova E.D., Leonova M.Yu., Korshevets I.K., Zykov A.M., Anichkov S.N. **Distribution of mercury in the combustion products of coal dust in boilers with liquid slag removal**. Solid Fuel Chemistry, 2010, 44(1), 50–55. https://doi.org/10.3103/S0361521910010106

Qu Z., Yan N., Liu P., Guo Y., Jia J. **Oxidation and stabilization of elemental mercury from coal-fired flue gas by sulfur monobromide**. Environmental Science & Technology, 2010, 44(10), 3889–3894. https://doi.org/10.1021/es903955s

Stergaršek A., Horvat M., Frkal P., Stergaršek J. **Removal of Hg0 from flue gases in wet FGD by catalytic oxidation with air – An experimental study**. Fuel, 2010, 89(11), 3167–3177. https://doi.org/10.1016/j.fuel.2010.04.006

Pudasainee, D., Kim, J.H., Lee, S.H., Park, J. M., Jang, H.N., Song, G.J. & Seo, Y.C. **Hazardous air pollutants emission from coal and oil-fired power plants**. Asia-Pacific Journal of Chemical Engineering, 2010, 5(2), 299-303. https://doi.org/10.1002/apj.268

2009

Brown T., Lissianski V. **First full-scale demonstration of mercury control in Alberta**. Fuel Processing Technology, 2009, 90(11), 1412–1418. https://doi.org/10.1016/j.fuproc.2009.08.005

Pudasainee D., Kim J.-H., Seo Y.-C. **Mercury emission trend influenced by stringent air pollutants regulation for coal-fired power plants in Korea**. Atmospheric Environment, 2009, 43(39), 6254–6259. https://doi.org/10.1016/j.atmosenv.2009.06.007

Qiao S., Chen J., Li J., Qu Z., Liu P., Yan N., Jia J. **Adsorption and catalytic oxidation of gaseous elemental mercury in flue gas over MnOx/Alumina. Industrial** & Engineering Chemistry Research, 2009, 48(7), 3317–3322. https://doi.org/10.1021/ie801478w

Thoma E. D., Secrest C., Hall E. S., Lee Jones D., Shores R. C., Modrak M., Hashmonay R., Norwood P. **Measurement of total site mercury emissions from a chlor-alkali plant using ultraviolet differential optical absorption spectroscopy and cell room roof-vent monitoring**. Atmospheric Environment, 2009, 43(3), 753–757. https://doi.org/10.1016/j.atmosenv.2008.10.032

2005

Lindberg S.E., Southworth G.R., Bogle M.A., Blasing T.J., Owens J., Roy K., Zhang H., Kuiken T., Price J., Reinhart D., Sfeir H. **Airborne emissions of mercury from municipal solid waste. I: New measurements from six operating landfills in Florida**. J. Air & Waste Management Association, 2005, 55(7), 859–869. https://doi.org/10.1080/10473289.2005.10464684

2004

Sholupov S., Pogarev S., Ryzhov V., Mashyanov N., Stroganov A. **Zeeman atomic absorption spectrometer RA-915+ for direct determination of mercury in air and complex matrix samples**. Fuel Processing Technology, 2004, 85(6–7), 473–485. https://doi.org/10.1016/j.fuproc.2003.11.003

John S. Kinseya, F.R. Anscombe, Steven E. Lindberg, George R. Southworth. **Characterization of the fugitive mercury emissions at a chlor-alkali plant: overall study design**. Atmospheric Environment, 2004, 38, 633–641. https://doi.org/10.1016/j.atmosenv.2003.09.059

Oil & Gas

2026

Sun, X., Jia, R., Yin, R., & Yang, X. **Anomalous mercury isotopic composition highlights the essential role of terrestrial erosion in forming cold seeps in the continental margin of the South China Sea**. Journal of Asian Earth Sciences, 2026, 107253. https://doi:10.1016/j.jseaes.2026.107253

Chen, Y., Hao, K., Sun, H., Xu, F., Deng, S., Yang, J., & Liu, T. **Influence of impurity gases (H_2O and H_2S) on the synergistic removal process of COS and Hg0 in natural gas**. Journal of Environmental Chemical Engineering, 2026, 122277. https://doi:10.1016/j.jece.2026.122277

2025

Mashyanov, N., Ryzhov, V., Sholupov, S., Pogarev, S., Shashko, A. **Gas and Oil Deposits: Mercury Ecogeochemistry**. In: Çiner, A., et al. Recent Research on Sedimentology, Stratigraphy, Paleontology, Tectonics, Geochemistry, Volcanology and Petroleum Geology. MedGU 2023. Advances in Science, Technology & Innovation. Springer, Cham. 2025, 165–169. https://doi:10.1007/978-3-031-87558-8_33

Mazzini, A., Zaputlyaeva, A., Blumenberg, M., Scheeder, G., Nuzzo, M., Husein, A., & Etiope, G. **Extensive oil, ethane and propane discharge at the mega seepage system of Lusi, Indonesia**. Communications Earth & Environment, 6(1), 854. https://doi:10.1038/s43247-025-02871-4

Hong, Q., Xu, H., Ling, C., Liu, Z., Huang, W., Yang, S., ... & Yan, N. **Low-Coordinated Polysulfide Species on Metal Sulfide Enabled Superior Gaseous Mercury Removal from Natural Gas.** Environmental Science & Technology, 2025, 59(8), 4178-4187. https://doi:10.1021/acs.est.4c10944

Yang, J., Zhou, X., Zheng, W., Zhu, P., Meng, F., Yang, Z., ... & Li, H. **Development of urea modified CuO pellets for elemental mercury adsorption from natural gas with H_2S**. Chemical Engineering Journal, 2025, 172101. https://doi:10.1016/j.cej.2025.172101

2024

Indraswari, A. O., Frieling, J., Mather, T. A., Dickson, A. J., Jenkyns, H. C., & Idiz, E. **Investigating the behavior of sedimentary mercury (Hg) during burial-related thermal maturation**. Geochemistry, Geophysics, Geosystems, 25, e2024GC011555. https://doi.org/10.1029/2024GC011555

Wang, J., Sun, Y., Zhu, B., Wang, T., Wang, Q., & Pan, W.P. **Effects of surface functionalizing and pore structure on dissolved mercury adsorption in gasoline by covalent sulphur-doped templated carbons: Experimental and theoretical insights**. Geoenergy Science and Engineering, 2024, 234, 212629. https://doi.org/10.1016/j.geoen.2023.212629

Wang, J., Liu, Y., Wang, T., Serageldin, M. A., & Pan, W. P. **A review on mercury in natural gas and its condensate: Accurate characterization and efficient control technologies for total and speciated mercury**. Fuel, 2024, 355, 129526. https://doi.org/10.1016/j.fuel.2023.129526

2023

Zhou, Y., Tang, S., Algeo, T. J., Shen, J., & Li, Y. **Mercury isotope variation during organic matter maturation to petroleum**. Chemical Geology, 2023, 618, 121298. https://doi.org/10.1016/j.chemgeo.2022.121298

Le, H. T., Punurai, W., Zawawi, N. A. W., Yaakob, O. B., Nguyen, N. T. P., Le, T. T., ... & Van Le, S. **A Review of Mercury Waste Management in the ASEAN Oil and Gas Industry**. Journal of Hazardous,

Toxic, and Radioactive Waste, 2023, 27(1), 04022044. https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000737

2022

Sholupov S.E., Ryzhov V.V., Pogarev S.E., Mashyanov N.R. **Automatic monitors for direct continuous mercury measurement in ambient air, hydrocarbon, and industrial gases**. Limnology and Freshwater Biology, 2022 (3), 1349-1351. https://doi.org/10.31951/2658-3518-2022-A-3-1349

Jiaxin Wang, Tao Wang, Qing Wang, Wei-Ping Pan. **Thiophene-functional hierarchical carbons for the removal of ionic and organic mercury in light hydrocarbon liquids: Synthesis, evaluation and adsorption mechanism**. Separation and Purification Technology, 2022, 289, 2022. https://doi.org/10.1016/j.seppur.2022.120754

Jiaxin Wang, Tao Wang, Qing Wang, Wei-Ping Pan. **Removing ionic and organic mercury from light hydrocarbon liquids by ordered zeolite-templated carbon doped with Sulphur**. Journal of Cleaner Production, 2022, 339, 130698. https://doi.org/10.1016/j.jclepro.2022.130698

2021

Nikolay Mashyanov. **Mercury in gas and oil deposits: corrosion problem**. Corrosion in the Oil & Gas Industry 2020, E3S Web of Conferences 225, 2021. https://doi.org/10.1051/e3sconf/202122501009

Juan Wang, Mingzhu Zhang, Ge Li, Yifan Zhou, Yuhan Zhang, Wenrui Zhang, Tiantian Jiao, Yaqing Zhang, Peng Liang, Huawei Zhang. **Ultrafine Au nanoparticles confined in three-dimensional mesopores of MCM-48 for efficient and regenerable Hg0 removal sorbent in H_2S and H_2O containing natural gas**. Fuel, 2021, 286(2), 119479. https://doi.org/10.1016/j.fuel.2020.119479

2020

J. Wang, T. Wang, B. Yan, Q. Wang, Y. Zhang, W-P. Pan. **Removal of ionic mercury from gasoline using zeolite 13X impregnated with KI: Adsorption mechanisms and simulation**. Chemical Engineering Journal, 2020. https://doi.org/10.1016/j.cej.2020.128170

A. Zaputlyaeva, A. Mazzini, M. Blumenberg, G. Scheeder, W.M. Kürschner, J. Kus, M.T. Jones, J. Frieling. **Recent magmatism drives hydrocarbon generation in northeast Java, Indonesia**. Scientific Reports, 2020, 10:1786. https://doi.org/10.1038/s41598-020-58567-6

Enrico, M., Mere, A., Zhou, H., Loriau, M., Tessier, E., & Bouyssiere, B. **Methods for Total and Speciation Analysis of Mercury in the Petroleum Industry**. Energy & Fuels, 2020, 34(11). https://doi.org/10.1021/acs.energyfuels.0c02730

2019

Jarol R. Miranda-Andrades, Sarzamin Khan, Carlos A.T. Toloza, Roberta M. Maciel, Rainério Escalfoni Jr, Maria Luiza Bragança Tristão, Ricardo Q. Aucelio. **Speciation and ultra trace determination of mercury in produced waters from offshore drilling operations using portable instrumentation and matrix-matching calibration**. Microchemical Journal, 2019, 146, 1072-1082. https://doi.org/10.1016/j.microc.2019.02.045

Huo, Q., Wang, Y., Chen, H., Han, L., Wang, J., Bao, W., Chang, L., Xie, K. **ZnS/AC sorbent derived from the high sulfur petroleum coke for mercury removal**. Fuel Processing Technology, 2019191, 36–43. https://doi.org/10.1016/j.fuproc.2019.03.025

M Hardi, YI Siregar, S Anita, M Ilza. **Determination of heavy metals concentration in produced water of oil field exploration in Siak Regency**. IOP Conf. Series: Journal of Physics: Conf. Series, 2019, 1156, 012009. https://doi.org/10.1088/1742-6596/1156/1/012009

Mojammal, A.H.M., Back, S.K., Seo, Y.C., Kim, J.H. **Mass balance and behavior of mercury in oil refinery facilities**. Atmospheric Pollution Research, 2019, 10(1), 145-151. https://doi.org/10.1016/j.apr.2018.07.002

2018

L. Lambertsson, C.J. Lord, W. Frech, E. Björn. **Rapid Dissolution of Cinnabar in Crude Oils at Reservoir Temperatures Facilitated by Reduced Sulfur Ligands**. ACS Earth Space Chem., 2018 https://doi.org/10.1021/acsearthspacechem.8b00096

H. Zhang, H. Sun, D. Zhang, W. Zhang, S. Chen, M. Li, P. Liang. **Nanoconfinement of Ag nanoparticles inside mesoporous channels of MCM-41 molecule sieve as a regenerable and H_2O resistance sorbent for Hg^0 removal in natural gas**. Chemical Engineering Journal, 2018, https://doi.org/10.1016/j.cej.2018.12.059

2017

E Kusrini, B H Susanto, DA Nasution, R Jonathan, WM Khairul. **Removal of Mercury in Liquid Hydrocarbons using Zeolites Modified with Chitosan and Magnetic Iron Oxide Nanoparticles**. Earth and Environmental Science, 2017, 75 012010. https://doi.org/10.1088/1755-1315/75/1/012010

Xiaolong Sun, Xueyun Si, Yang Xiang, Dongying Liu. **Soil mercury spatial variations in the fault zone and corresponding influence factors**. Terr. Atmos. Ocean. Sci., 2017, 28(3), 283-294. https://doi.org/10.3319/TAO.2016.09.29.02

2016

Norwegian Oil and Gas. **Recommended guidelines for identification, assessment, control and follow-up of mercury exposure,** No 132. 2016

Xu, Jianling; Wang, Hanxi; Liu, Yuanyuan; Ma, Mengchao; Zhang, Tian; Zheng, Xiaoxue; Zong, Meihan. **Ecological risk assessment of heavy metals in soils surrounding oil waste disposal areas**. Environmental Monitoring and Assessment, 2016, 188(2). https://doi.org/10.1007/s10661-016-5093-x

2015

G. Revalde, S. Sholupov, A. Ganeev, S. Pogarev, V. Ryzhov, A. Skudra. **Use of radiation sources with mercury isotopes for real-time highly sensitive and selective benzene determination in air and natural gas by differential absorption spectrometry with the direct Zeeman effect**. Analytica Chimica Acta, 2015, 887, 172-178. https://doi.org/10.1016/j.aca.2015.07.021

Khunphonoi, R., Khamdahsag, P., Chiarakorn, S., Grisdanurak, N., Paerungruang, A., Predapitakkun, S. **Enhancement of elemental mercury adsorption by silver supported material**. Journal of Environmental Sciences, 2015, 32, 207–216. https://doi.org/10.1016/j.jes.2015.01.008

2014

Mercury management in petroleum refining. An IPIECA Good Practice Guide. 2014.

D.J. O'Rear, et. al. **Process, method, and system for removing mercury from fluids.** US Patent US 2014/0072489 A1, 2014

D.J. O'Rear, et. al. **Method for removing mercury from natural gas**. European Patent EP 2 892 631 B1, 2013

2013

Fernanda Veronesi M. Pontes, Manuel C. Carneiro, Delmo S. Vaitsman, Maria Inês C. Monteiro, Arnaldo A. Neto, Maria Luíza B. Tristão, Maurício de F. Guerrante. **Comparative study of sample decomposition methods for the determination of total Hg in crude oil and related products**. Fuel Process. Technol., 106, 2013, 122-126. https://doi.org/10.1016/j.fuproc.2012.07.011

Rosmayati L., Nofrizal N., Andriani Y., Hermawan N. Pembuatan rancang bangun adsorber penghilang merkuri berskala pilot pada industri gas bumi (**Design and build a pilot-scale mercury removal adsorber in the natural gas industry**). Lembaran Publikasi Minyak dan Gas Bumi, 2013, 47(2), 105–114. (In Indonesian). http://202.46.252.13/ojslemigas/index.php/LPMGB/article/view/88/88

2012

Pontes F. V. M., Carneiro M. C., Vaitsman D. S., Monteiro M. I. C., Neto A. A., de Souza E. M. F., Tristão M. L. B. **A new on-line version of the gold amalgamation trap for interference-free determination of Hg0 in crude oil and related products by Zeeman CV-AAS**. J. Analytical Atomic Spectrometry, 2012, 27(10), 1794–1798. https://doi.org/10.1039/C2JA30098B

Rosmayati L. **The improvement of mercury removal in natural gas by activated carbon impregnated with zinc chloride**. Scientific Contributions Oil & Gas, 2012, 35(1), 25–29. http://202.46.252.13/ojslemigas/index.php/SCOG/article/view/142/142

K. Kositkanawuth, R.H. Gangupomu, M.L. Sattler, B.H. Dennis, F.M. MacDonnell, R. Billo & J.W. Priest. **Air impacts from three alternatives for producing JP-8 jet fuel**. Journal of the Air & Waste Management Association, 2012, 62(10), 1182-1195. https://doi.org/10.1080/10962247.2012.700632

2010

ASTM **D7622 – 10. Standard Test Method for Total Mercury in Crude Oil Using Combustion and Direct Cold Vapor Atomic Absorption Method with Zeeman Background Correction**

S. Mark Wilhelm and Mark Nelson. **Interaction of Elemental Mercury with Steel Surfaces**. J Corrosion Science and Engineering, 2010, 13(38). ISSN 1466-8858

2007

Won J. H., Park J. Y., Lee T. G. **Mercury emissions from automobiles using gasoline, diesel, and LPG**. Atmospheric Environment, 2007, 41(35), 7547–7552. https://doi.org/10.1016/j.atmosenv.2007.05.043

2004

N. Ozerova, N. Mashyanov, V. Ryzhov, Yu. Pikovsky. **Prediction of mercury-bearing gas deposits. (theoretical and environmental aspects)**. RMZ – Materials and Geoenvironment, 2004, 51(1), 181-184. http://www.rmz-mg.com/contents.htm

V. Ryzhov, S. Sholupov, S. Pogarev, N. Mashyanov. **Direct determination of mercury concentration in natural hydrocarbon gases.** RMZ – Materials and Geoenvironment, 2004, 51(3), 2015-2018. http://www.rmz-mg.com/contents.htm

S. Sholupov, S. Pogarev, V. Ryzhov, N. Mashyanov, A. Stroganov. **Zeeman atomic absorption spectrometer RA-915 for direct determination of mercury in air and complex matrix samples**. Fuel Processing Technology, 2004, 85, 473-485. https://doi.org/10.1016/j.fuproc.2003.11.003

2003

Ryzhov V.V., Mashyanov N.R., Ozerova N.A., Pogarev S.E. **Regular variations of the mercury concentration in natural gas**. Sci Total Environ, 2003, 304, 145–152. https://doi.org/10.1016/S0048-9697(02)00564-8

2000

Špirić Z., Mashyanov N. R. **Mercury measurements in ambient air near natural gas processing facilities.** Fresenius Journal of Analytical Chemistry, 2000, 366(5), 429–432. http://doi.org/10.1007/s002160050087

1999

N.A. Ozerova, N.R. Mashyanov, Yu.I. Pikovsky, V.V. Ryzhov, A.E. Chernova, A.A. Ganeev, S.E. Sholupov, L.A. Dobryansky. **Mercury in gas and oil deposits**. In: Mercury Contaminated Sites (ed. by R. Ebinghaus et al.) Springer-Verlag, 1999. P. 237-246. 443. https://doi.org/10.1007/978-3-662-03754-6_12

Plants & Crops

2026

Bos, R., Rohovec, J., Navrátil, T., Kegel, A. H., Bolt, T. R., Lindström, S., ... & van de Schootbrugge, B. **Hg-accumulation in above-ground fern biomass and spore malformations around industrial sites (Czechia): Implications for mass extinction scenarios**. Chemosphere, 2026, 410, 145025. https://doi:10.1016/j.chemosphere.2026.145025

Jakub, K., Jiřina, S., Lukáš, P., Jiřina, S., Luka, S., & Pavel, T. **Mercury (Hg) Speciation in the Soil–Plant System of Formerly Polluted Soils**. Applied Sciences, 2026, 16(11), 5405. https://doi:10.3390/app16115405

Penalba-Iglesias, D., Robas-Mora, M., González-Reguero, D., Fernández-Pastrana, V. M., Lobo, A. P., & Jiménez-Gómez, P. A. **A novel Bacillaceae bacterium enhances phytoprotection and mercury detoxification in contaminated soils**. Ecotoxicology and Environmental Safety, 2026, 319, 120261. https://doi:10.1016/j.ecoenv.2026.120261

Fan, R., Li, X., Hao, S., Yuliang, X., Zong, J., Gao, Y., ... & Zhang, G. **Environmental processes and ecosystem services of self-purifying mercury in constructed wetlands in industrial cities: a case study of the main urban area of Changchun, Yitong River**. Frontiers in Environmental Science, 2026, 14, 1751485. https://doi:10.3389/fenvs.2026.1751485

Sun, X., Li, H., Wu, C., Xiong, B., Qu, X., Song, X., ... & Ma, M. **Hormesis and chelation pathway shifts govern dose-segmented Hg0 detoxification in Spanish moss**. Environmental Chemistry and Ecotoxicology, 2026. https://doi:10.1016/j.enceco.2026.05.012

de Britto Pedrosa, R. F. C., Monteiro, L. C., Rodrigues, Y. O. S., Bernardi, J. V. E., & Rodrigues, E. V. **Spatial Distribution of Mercury in Vegetation and Soil in a Conservation Unit Near Highways**. Water, Air, & Soil Pollution, 2026, 237(2), 1-14. https://doi:10.1007/s11270-025-08797-z

2025

Chaverra, L. M., Cuervo, D. P., & Gutiérrez, A. L. **Mercury accumulator plants with phytoremediation potential in a region of northwestern Colombia**. Environmental Science and Pollution Research, 2025, 1-19. https://doi:10.1007/s11356-025-37078-9

Barquero, J.I., Peco, J., Villena, J., Campos, J.A., Amorós, J.A., Esbrí, J.M., García-Navarro, F.J., Moreno, M.M., Higueras, P. **Transference of potentially toxic elements from soils to plants in a derelict Pb-Zn mining area (San Quintín mine, South-Central Spain)**. Applied Geochemistry, 2025, 106637. https://doi:10.1016/j.apgeochem.2025.106637

Gao, Y., Xiong, B., Huang, X., Sun, X., Du, H., & Ma, M**. Liquiritin and L-Dopa mitigate gaseous elemental mercury toxicity in *Tillandsia usneoides*: Insights into metabolic reprogramming and phytoremediation potential**. Journal of Hazardous Materials, 2025, 139237. https://doi:10.1016/j.jhazmat.2025.139237

Caraballo-Laza, M. J., Ossa-Henao, D. M., Urango-Cardenas, I., Rosso-Pinto, M., Guimarães, J. R. D., Paternina-Uribe, R., ... & Marrugo-Negrete, J. **Composting as a Sustainable Approach for Managing Mercury-Contaminated Aquatic Biomass**. Toxics, 2025, 13(7), 553. https://doi:10.3390/toxics13070553

Javier, G. B., Juan, V. V., Margareth, D. I., Lucellys, S. M., & Jesus, O. V. **Environmental pollution by mercury and trace metals in highly vulnerable afro-descendant territories in the Department of**

Cauca, Colombia. Soil and Sediment Contamination: An International Journal, 2025, 34(3), 510-527. https://doi:10.1080/15320383.2024.2359067

Gomez, F. H., Collivignarelli, M. C., Bellazzi, S., Torres, K. C., Sorlini, S., & Vaccari, M. **Mercury removal from mining wastewater by bioaccumulation and thermal separation in Eichhornia crassipes**. Environmental Science and Pollution Research, 32(2), 798-810. https://doi:10.1007/s11356-024-35770-w

Xiao, Y., Zhang, H., Zong, J., Bai, X., Yang, K., Li, X., ... & Zhang, G. **Mercury Accumulation in Urban Forest Leaves: Dynamics, Driving Factors, and Potential Economic Value**. Journal of Hazardous Materials, 2025, 137763. https://doi:10.1016/j.jhazmat.2025.137763

Le, T.H.S., Baranovskaya, N.V., Lyapina, E.E., & Krachnakova, M.G. **Patterns of mercury concentration in annual tree rings in Siberia (Russia) and the Republic of Vietnam**. Bulletin of the Tomsk Polytechnic University-Geo Assets Engineering, 2025, 336(2), 215-230. https://doi:10.18799/24131830/2025/2/4930

Zhan, Z., Lv, D., Zhou, H., Wu, Q., Cui, Y., & Duan, L. **Forest Mercury Deposition Observation in Chongqing: Evaluating Effectiveness of Mercury Pollution Control over the Past Decade in Southwestern China**. ACS ES&T Air, 2025. https://doi:10.1021/acsestair.4c00269

Frimpong, E., Ankapong, E., Boakye, K. O., Ansah, E., Gyamfi, O., Barnes, B., ... & Darko, G. **Uptake and in-vitro bioaccessibility of toxic metals in cocoa beans: Human health risks**. Environmental Geochemistry and Health,2025, 47(2), 33. https://doi:10.1007/s10653-024-02345-0

Li, P., Du, B., Feng, L., & Feng, X. **Human Health Risks Associated with Rice Consumption**. In Methylmercury Accumulation in Rice, 2025, 42-87. CRC Press. https://doi:10.1201/9781003404941

2024

Meloni, F., Calabrese, S., Vaselli, O., Capecchiacci, F., Ciani, F., Brusca, L., ... & Cabassi, J. **Active moss biomonitoring of mercury in the mine-polluted area of Abbadia San Salvatore (Mt. Amiata, Central Italy)**. Toxics, 2024, 13(1), 2. https://doi:10.3390/toxics13010002

Bauštein, M., Száková, J., Stefanović, L., Najmanová, J., Sysalová, J., & Tlustoš, P. **Assessment of Mercury Uptake by Plants in Former Cinnabar Mining Areas**. Minerals, 2024, 14(12), 1211. https://doi:10.3390/min14121211

Acheampong, A., Sarpong, K., Akoto, O., Apau, J., & Darko, G. **Health Risk Assessments of Potentially Toxic Elements in Selected Medicinal Plants from the Ashanti Region of Ghana**. Chemistry Africa, 2024, 1-19. https://doi:10.1007/s42250-024-01076-0

Gomez, F. H., Pelegri, N., Lopez, J. G., Torres, K. C., & Vaccari, M. **Impact of Artisanal Gold Mining in Community Conserved Areas with High Biodiversity Using a Multi-Criteria Approach: A Case Study in Colombia**. Pollutants, 2024, 4(2), 276-290. https://doi:276-290.10.3390/pollutants4020018

Man, Y., Wang, B., Wang, J., Cai, K., Rinklebe, J., Zhang, L., & Feng, X. **New Insights into MeHg Accumulation in Rice (Oryza sativa L.): Evidence from Cysteine**. Environmental Science & Technology, 2024, 58(13), 5942-5951. https://doi:10.1021/acs.est.3c08385

Li, P., Du, B., Feng, L., & Feng, X. (2024). HUMAN METHYLMERCURY EXPOSURE VIA RICE CONSUMPTION. Methylmercury Accumulation in Rice: Process and Regulation, 42.

Barquero, J.I., Lorenzo, S., Rivera, S., González-Valoys, A.C., García-Ordiales, E., Esbrí, J. M., Higueras, P. **Biogeochemical prospecting of metallic critical raw materials: soil to plant transfer in SW Ciudad Real Province, Spain**. Environmental Science and Pollution Research, 2024, 31(20), 29536-29548. https://doi.org/10.1007/s11356-024-33097-0

Monteiro, L.C., Vieira, L.C.G., Bernardi, J.V.E., Rodrigues, Y.O.S., de Mesquita, L.P.B., Souza, J.P.R.D., ... & Bastos, W.R. **Mercury Bioconcentration and Translocation in Rooted Macrophytes (Paspalum repens Berg.) from Floodplain Lakes in the Araguaia River Watershed, Brazilian Savanna**. Water, 2024, 16(9), 1199. https://doi.org/10.3390/w16091199

Barquero, J.I., Lorenzo, S., Rivera, S., González-Valoys, A.C., García-Ordiales, E., Esbrí, J.M., & Higueras, P. **Biogeochemical prospecting of metallic critical raw materials: soil to plant transfer in SW Ciudad Real Province, Spain**. Environmental Science and Pollution Research, 2024, 1-13. https://doi.org/10.1007/s11356-024-33097-0

Man, Y., Wang, B., Wang, J., Cai, K., Rinklebe, J., Zhang, L., & Feng, X. **New Insights into MeHg Accumulation in Rice (Oryza sativa L.): Evidence from Cysteine**. Environmental Science & Technology, 2024, 58(13). https://doi.org/10.1021/acs.est.3c08385

Barquero Peralbo, J.I., Esbrí Víctor, J.M., Ntutumu, D.M., Minang, C.M., Lorenzo Álvarez, S., González Valoys, A.C., and Higueras, P. **Regional distribution of mercury in the leaves of Quercus ilex in the Almadén area (Spain).** EGU General Assembly, 2024, EGU24-20759. https://doi.org/10.5194/egusphere-egu24-20759

Shuvaeva, O.V., Gustaytis, M.A., Pokhorukova, A.I., & Romanova, T.E. **The influence of mercury speciation and its transformation in growth medium on the accumulation efficiency by white mustard**. Chemistry and Ecology, 40(1), 36-46. 2024, https://doi.org/10.1080/02757540.2023.2290174

Monteiro, L.C., Vieira, L.C.G., Bernardi, J.V.E., do Nascimento Recktenvald, M.C.N., da Costa Nery, A.F., Fernandes, I.O., ... & Bastos, W.R. **Mercury distribution, bioaccumulation, and biomagnification in riparian ecosystems from a Neotropical savanna floodplain, Araguaia River, Central Brazil**. Environmental Research, 2024, 118906. https://doi.org/10.1016/j.envres.2024.118906

Fernandes, I.O., Monteiro, L.C., de Miranda, V.L., Rodrigues, Y.O.S., de Freitas Muniz, D.H., de Castro Paes, É., & Bernardi, J.V.E. **Mercury distribution in organisms, litter, and soils of the Middle Araguaia floodplain in Brazil**. Environmental Science and Pollution Research, 2024, 1-16. https://doi.org/10.1007/s11356-024-32317-x

2023

Esbrí, J.M., Minang, C.M., Rivera, S., Madrid-Illescas, M., García-Noguero, E., González-Valoys, A., ... & Higueras, P.L. **Evaluation of antimony availability in a mining context: Impact for the environment, and for mineral exploration and exploitation**. Chemosphere, 2023, 311, 137086. https://doi.org/10.1016/j.chemosphere.2022.137086

Ciani, F., Fornasaro, S., Benesperi, R., Bianchi, E., Cabassi, J., Di Nuzzo, L., ... & Rimondi, V. **Mercury accumulation efficiency of different biomonitors in indoor environments: The case study of the Central Italian Herbarium (Florence, Italy)**. Environmental Science and Pollution Research, 2023, 1-13. https://doi.org/10.1007/s11356-023-31105-3

Meloni, F., Farieri, A., Higueras, P. L., Esbrí, J. M., Nisi, B., Cabassi, J., Rappuoli, D. & Vaselli, O. **Mercury distribution in plants and soils from the former mining area of Abbadia San Salvatore (Tuscany, central Italy)**. Environmental Geochemistry and Health, 2023. https://doi.org/10.1007/s10653-023-01739-w

Gordeeva, O., & Pastukhov, M. **Forms of mercury in soils and its accumulation by herbs in the zone of influence of the sludge storage of a chlor-alkali plant (Southern Baikal region)**. In E3S Web of Conferences, 2023, 417, 02013. https://doi.org/10.1051/e3sconf/202341702013

2022

Amponsah, I. K., Boakye, A., Orman, E., Armah, F. A., Borquaye, L. S., Adjei, S., ... & Harley, B. K. **Assessment of some quality parameters and chemometric-assisted FTIR spectral analysis of commercial powdered ginger products on the Ghanaian market**. Heliyon, 2022, 8(3). https://doi.org/10.1016/j.heliyon.2022.e09150

Pan, J.; Chen, M.; Zhang, Z.; Zhang, H.; Zong, J.;Wang, Z.; Zhang, G. **Risk Assessments of Plant Leaf and Soil Mercury Pollution in Different Functional Areas of Changchun City**. Forests, 2023, 14, 1108. https://doi.org/10.3390/f14061108

Monaci, F., Ancora, S., Paoli, L., Loppi, S., & Wania, F. **Lichen transplants as indicators of gaseous elemental mercury concentrations**. Environmental Pollution, 2022, 313, 120189. https://doi.org/10.1016/j.envpol.2022.120189

Bardelli, F., Rimondi, V., Lattanzi, P., Rovezzi, M., Isaure, M. P., Giaccherini, A., & Costagliola, P. **Pinus nigra bark from a mercury mining district studied with high resolution XANES spectroscopy**. Environmental Science: Processes & Impacts, 2022, 24(10), 1748-1757. https://doi.org/10.1039/D2EM00239F

Belyanin, D.K., Melgunov, M.S., Gustaytis, M.A., Vosel, Y.S., Mezina, K.A., & Kropacheva, M.Y. **Distribution of mercury concentrations in lichens, mosses and larch needles in Western Siberia (according to the 2019 data)**. Limnology and Freshwater Biology, 2022, 1295-1298. https://doi.org/10.31951/2658-3518-2022-A-3-1295

Božič, D., Živković, I., Hudobivnik, M. J., Kotnik, J., Amouroux, D., Štrok, M., & Horvat, M. **Fractionation of mercury stable isotopes in lichens**. Chemosphere, 2022, 309, 136592. https://doi.org/10.1016/j.chemosphere.2022.136592

Shuvaeva, O. V., Gustaitis, M. A., Pokhorukova, N. I., Troitsky, D. Y., & Bekesha, I. A. **The study of mercury accumulation by plants depending on the chemical form of the element in the growing media**. Limnology and Freshwater Biology, 2022 (3), 1342-1345. https://doi.org/10.31951/2658-3518-2022-A-3-1342

Sarpong, K., Acheampong, A., Darko, G., & Akoto, O. **Potentially toxic Metal Loads in Soils Supporting Medicinal Plants in the Ashanti Region of Ghana**. Chemistry Africa, 2022, 1-15. https://doi.org/10.1007/s42250-022-00341-4

Amponsah, I. K., Boakye, A., Orman, E., Armah, F. A., Borquaye, L. S., Adjei, S., & Harley, B. K. **Quality Assessment and Chemometric-Assisted FTIR Spectral Analysis of Commercial Powdered Ginger Products on the Ghanaian Market**. Helyion, 2022, 8(3), E09150. https://doi.org/10.1016/j.heliyon.2022.e09150

Punshon, T., Jackson, B.P., Donohue, A. et al. **Distribution and accumulation of mercury in pot-grown African rice cultivars (Oryza glaberrima Steud. and Oryza sativa L.) determined via LA-ICP-MS**. Environ Geochem Health, 2022. https://doi.org/10.1007/s10653-021-01169-6

Xianming Li, Xun Wang, Wei Yuan, Zhiyun Lu, Dingyong Wang. **Increase of litterfall mercury input and sequestration during decomposition with a montane elevation in Southwest China**. Environmental Pollution, 2022, 292(B), 118449. https://doi.org/10.1016/j.envpol.2021.118449.

D.V. Yusupov, E.E. Lyapina, E.M. Tursunalieva, N.A. Osipova, N.V. Baranovskaya. **Poplar tree (Populus balsamifera L.) as indicator of mercury emission from a point source**. Chemosphere, 2022, 287(3), 132157, https://doi.org/10.1016/j.chemosphere.2021.132157

Keshav, V., Archana, O., Kumari, D., & Reddy, J. (2022). **Bioindicators Helping in Human and Ecological Health**. International Journal of Research and Analytical Reviews, 2022, 9(1), 245-253. E-ISSN 2348-1269

2021

L.P. Rikhvanova, E.E. Lyapina, D.V. Yusupova, E.M. Tursunalieva, and A.A. Pavlova. **Mercury Emanations from the Baikal Rift: Evidence from the Study of Annual Tree Rings (an Example of the Tunka Depression)**. Doklady Earth Sciences, 2021, 496(1), 32–36. https://doi.org/10.1134/S1028334X21010190

Wang Z, Li X, Zhang G, Wang L, Qi W, Feng Z, Xiao T, Yan M, Wang D. **The Characteristics of Mercury Flux at the Interfaces between Two Typical Plants and the Air in Leymus chinensis Grasslands**. Internat. J. Environmental Research and Public Health, 2021; 18(19), 10115. https://doi.org/10.3390/ijerph181910115

Liu, Y., Lin, CJ., Yuan, W. et al. **Translocation and distribution of mercury in biomasses from subtropical forest ecosystems: evidence from stable mercury isotopes**. Acta Geochim, 2021, 40, 42–50. https://doi.org/10.1007/s11631-020-00441-3

Jiang Liu, Bo Meng, Alexandre.J. Poulain, Qiyi Meng, Xinbin Feng. **Stable isotope tracers identify sources and transformations of mercury in rice (Oryza sativa L.) growing in a mercury mining area**. Fundamental Research, 2021, 1(3), 259-268. https://doi.org/10.1016/j.fmre.2021.04.003

Chang, Chuanyu; Yin, Runsheng ; Huang, Fang ; Sun, Guangyi ; Mao, Kang ; Lei, Da ; Zhang, Hua. **Understanding the Bioaccumulation of Mercury in Rice Plants at the Wanshan Mercury Mine, China: Using Stable Mercury Isotopes**. J. Geophysical Research: Biogeosciences, 2021, 126(2). https://doi.org/10.1029/2020JG006103

Chuanyu Chang, Runsheng Yin, Fang Huang, Ruirui Wang, Chongying Chen, Kang Mao, Xinbin Feng, Hua Zhang. **A new method of predicting the contribution of TGM to Hg in white rice: Using leaf THg and implications for Hg risk control in Wanshan Hg mine area**. Environmental Pollution, 2021, 288, 117727. https://doi.org/10.1016/j.envpol.2021.117727

Viso, S.; Rivera, S.; Martinez-Coronado, A.; Esbrí, J.M.; Moreno, M.M.; Higueras, P. **Biomonitoring of Hg0, Hg2+ and Particulate Hg in a Mining Context Using Tree Barks**. Int. J. Environ. Res. Public Health, 2021, 18, 5191. https://doi.org/10.3390/ijerph18105191

Tomáš Navrátil, James B. Shanley,Jan Rohovec,Irena Dobešová,Šárka Matoušková,Michal Roll,Tereza Nováková,Filip Oulehle. **Mercury cycling during acid rain recovery at the forested Lesní potok catchment, Czech Republic**. Hydrological Processes, 2021. https://doi.org/10.1002/hyp.14255

González-Valoys, A.C., Jiménez Salgado, J.U., Rodríguez, R. et al. **An approach for evaluating the bioavailability and risk assessment of potentially toxic elements using edible and inedible plants—the Remance (Panama) mining area as a model**. Environ Geochem Health, 2021. https://doi.org/10.1007/s10653-021-01086-8

Jicheng Xia, Jianxu Wang, Leiming Zhang, Xun Wang, Wei Yuan, Christopher W.N. Anderson, Chaoyue Chen, Tao Peng, Xinbin Feng. **Significant mercury efflux from a Karst region in Southwest China - Results from mass balance studies in two catchments**. Science of The Total Environment, 2021, 769, https://doi.org/10.1016/j.scitotenv.2020.144892.

2020

Jicheng Xia, Jianxu Wang, Leiming Zhang, Christopher W.N. Anderson, Xun Wang, Hua Zhang, Zhihui Dai, Xinbin Feng. **Screening of native low mercury accumulation crops in a mercury polluted mining region: Agricultural planning to manage mercury risk in farming communities.** Journal of Cleaner

Production, 2020, 262, 121324. Environmental Science and Technology 54(5), 2698-2706. https://doi.org/10.1016/j.jclepro.2020.121324

Jianxu Wang, Sabry M. Shaheen, Christopher W. N. Anderson, Ying Xing, Shirong Liu, Jicheng Xia, Xinbin Feng, and Jörg Rinklebe. **Nanoactivated Carbon Reduces Mercury Mobility and Uptake by Oryza sativa L: Mechanistic Investigation Using Spectroscopic and Microscopic Techniques**. Environ. Sci. Technol. 2020, 54, 2698−2706. https://doi.org/10.1021/acs.est.9b05685

T. Akanchise, S. Boakye, L.S. Borquaye, M. Dodd, G. Darko. **Distribution of heavy metals in soils from abandoned dump sites in Kumasi, Ghana**. Scientific African, 2020, 10, e00614. https://doi.org/10.1016/j.sciaf.2020.e00614.

2019

Panichev, N., Mokgalaka, N., & Panicheva, S. **Assessment of air pollution by mercury in South African provinces using lichens Parmelia caperata as bioindicators**. Environmental Geochemistry and Health. 2019, 41, 2239–2250. https://doi.org/10.1007/s10653-019-00283-w

Lenn G Gomah, Rafael S Ngumbu, Ray B Voegborlo. **Dietary Exposure to Heavy Metal Contaminated Rice and Health Risk to the Population of Monrovia**. J. Environmental Science and Public Health, 2019, 3, 474-482. https://doi.org/10.26502/jesph.96120077

Qiu, G., Abeysinghe, K.S., Yang, XD. et al. **Effects of Selenium on Mercury Bioaccumulation in a Terrestrial food Chain from an Abandoned Mercury Mining Region**. Bull Environ Contam Toxicol, 2019, 102, 329–334. https://doi.org/10.1007/s00128-019-02542-z

Naharro, R., Esbrí, J.M., Amorós, J. Á., García-Navarro, F.J., & Higueras, P. **Assessment of mercury uptake routes at the soil-plant-atmosphere interface**. Geochemistry: Exploration, Environment, Analysis, 2019, 19(2), 146-154

2018

J.M. Esbrí, H. Cacovean, P. Higueras. **Usage Proposal of a common urban decorative tree (Salix alba L.) to monitor the dispersion of gaseous mercury: A case study from Turda (Romania).** Chemosphere, 2018, 193, 74-81. https://doi.org/10.1016/j.chemosphere.2017.11.007

Buyun Du, Xinbin Feng, Ping Li, Runsheng Yin, Ben Yu, Jeroen E. Sonke, Benjamin Guinot, Christopher W. N. Anderson, and Laurence Maurice. **Use of Mercury Isotopes to Quantify Mercury Exposure Sources in Inland Populations, China**. Environ. Sci. Technol., 2018, 52(9), 5407–5416. https://doi.org/10.1021/acs.est.7b05638

Lenn Galileo Gomah, Ray Bright Voegborlo, Rafael Sarji Ngumbu. **Levels of Heavy Metals in some Commercially available Rice on the Liberian Market**. Internat. J. Scientific Research in Science and Technology, 2018. https://doi.org/10.32628/IJSRST1840119

2017

Berdonces M. A. L., Higueras P. L., Fernández-Pascual M., Borreguero A. M., Carmona M. **The role of native lichens in the biomonitoring of gaseous mercury at contaminated sites**. J. Environmental Management, 2017, 186(2), 207–213. https://doi.org/10.1016/j.jenvman.2016.04.047

Wang J., Xia J., Feng X. **Screening of chelating ligands to enhance mercury accumulation from historically mercury-contaminated soils for phytoextraction**. J. Environ. Management, 2017, 186(2), 233–239. https://doi.org/10.1016/j.jenvman.2016.05.031

Sarah E. Rothenberg, Runsheng Yin, James P. Hurley, David P. Krabbenhoft, Yuyun Ismawati, Chuan Hong, and Alexis Donohue. **Stable Mercury Isotopes in Polished Rice (Oryza sativa L.) and Hair from**

Rice Consumers. Environ. Sci. Technol. 2017, 51(11), 6480–6488. https://doi.org/10.1021/acs.est.7b01039

Jiřina Sysalová, Jan Kučera, Barbora Drtinová, Rostislav Červenka, Ondřej Zvěřina, Josef Komárek, Jan Kameník. **Mercury species in formerly contaminated soils and released soil gases**. Science of The Total Environment, 2017, 584–585, 1032-1039. https://doi.org/10.1016/j.scitotenv.2017.01.157

Tomáš Navrátil, Martin Šimeček, James B. Shanley, Jan Rohovec, Maria Hojdová, Jakub Houška. **The history of mercury pollution near the Spolana chlor-alkali plant (Neratovice, Czech Republic) as recorded by Scots pine tree rings and other bioindicators**. Science of The Total Environment, 2017, 586, 1182-1192. https://doi.org/10.1016/j.scitotenv.2017.02.112

2016

C. Feng; Z. Pedrero; P. Li; B. Du; X. Feng; M. Monperrus; E. Tessier; S. Berail; D. Amouroux. **Investigation of Hg uptake and transport between paddy soil and rice seeds combining Hg isotopic composition and speciation**. Elementa: Science of the Anthropocene, 2016, 4: 000087. https://doi.org/10.12952/journal.elementa.000087

Pogrzeba, M., Ciszek, D., Galimska-Stypa, R. et al. **Ecological strategy for soil contaminated with mercury**. Plant Soil, 2016, 409, 371–387. https://doi.org/10.1007/s11104-016-2936-8

2015

Jun Zhou, Hongyan Liu, Buyun Du, Lihai Shang, Junbo Yang, Yusheng Wang. **Influence of soil mercury concentration and fraction on bioaccumulation process of inorganic mercury and methylmercury in rice (Oryza sativa L.)** Environ Sci Pollut Res., 2015, 22, 6144–6154. https://doi.org/10.1007/s11356-014-3823-6

C.M. Kede, P.P. Ndibewu, M.M. Kalumba, N.A. Panichev, H.M. Ngomo and J.M. Ketcha. **Adsorption of Mercury(II) onto Activated Carbons derived from Theobroma cacao Pod Husk**. S. Afr. J. Chem., 2015, 68, 226-235. https://doi.org/10.17159/0379-4350/2015/v68a31

2014

Zhang H., Wang D., Zhang J., Shang X., Zhao Y., Wu Y. **Total mercury in milled rice and brown rice from China and health risk evaluation**. Food Additives & Contaminants: Part B, 2014, 7(2), 141–146. https://doi.org/10.1080/19393210.2013.860485

Hongxia Zhang, Dongmei Wang, Jialing Zhang, Xiaohong Shang, Yunfeng Zhao & Yongning Wu. **Total mercury in milled rice and brown rice from China and health risk evaluation**. Food Additives & Contaminants, 2014, Part B: Surveillance, 7(2), 141-146. https://doi.org/10.1080/19393210.2013.860485

Amorós J. A., Esbrí J. M., García-Navarro F. J., Pérez-de-los-Reyes C., Bravo S., Villaseñor B., Higueras P. **Variations in mercury and other trace elements contents in soil and in vine leaves from the Almadén Hg-mining district**. J. Soils and Sediments, 2014, 14(4), 773–777. https://doi.org/10.1007/s11368-013-0783-2

Dago À., González I., Ariño C., Martínez-Coronado A., Higueras P., Díaz-Cruz J.M., Esteban M. **Evaluation of mercury stress in plants from the Almadén mining district by analysis of phytochelatins and their Hg complexes**. Environmental Science & Technology, 2014, 48 (11), 6256–6263. https://doi.org/10.1021/es405619y

Mekonnen K.N., Ambushe A.A., Chandravanshi B.S., Redi-Abshiro M., McCrindle R.I. **Assessment of potentially toxic elements in Swiss chard and sediments of Akaki River, Ethiopia**. Toxicological &

Environmental Chemistry, 2014, 96(10), 1501–1515.
https://doi.org/10.1080/02772248.2015.1025788

2013

Niu Z., Zhang X., Wang S., Ci Z., Kong X., Wang Z. **The linear accumulation of atmospheric mercury by vegetable and grass leaves: potential biomonitors for atmospheric mercury pollution**. Environmental Science and Pollution Research, 2013, 20(9), 6337–6343.
https://doi.org/10.1007/s11356-013-1691-0

Quiñones M. A., Ruiz-Díez B., Fajardo S., López-Berdonces M. A., Higueras P. L., Fernández-Pascual M. ***Lupinus albus*** **plants acquire mercury tolerance when inoculated with an Hg-resistant** ***Bradyrhizobium*** **strain**. Plant Physiology and Biochemistry, 2013, 73, 168–175.
https://doi.org/10.1016/j.plaphy.2013.09.015

Rothenberg S. E., Yu X., Zhang Y. **Prenatal methylmercury exposure through maternal rice ingestion: Insights from a feasibility pilot in Guizhou Province, China**. Environmental Pollution, 2013, 180, 291–298. https://doi.org/10.1016/j.envpol.2013.05.037

Wang J., Feng X., Anderson C. W. N. **Thiosulphate assisted phytoextraction of mercury contaminated soils at the Wanshan Mercury Mining District, Southwest China.** Journal of Degraded and Mining Lands Management, 2013, 1(1), 1–8.
http://www.jdmlm.ub.ac.id/index.php/jdmlm/article/view/6

Zhang W., Wei W., Hu D., Zhu Y., Wang X. **Emission of speciated mercury from residential biomass fuel combustion in China**. Energy & Fuels, 2013, 27(11), 6792–6800.
https://doi.org/10.1021/ef401564r

Zhou J., Feng X., Liu, H., Zhang H., Fu X., Bao Z., Wang X., Zhang Y. **Examination of total mercury inputs by precipitation and litterfall in a remote upland forest of Southwestern China**. Atmospheric Environment, 2013, 81, 364–372. https://doi.org/10.1016/j.atmosenv.2013.09.010

Niu, Z., Zhang, X., Wang, S., Zeng, M., Wang, Z., Zhang, Y., & Ci, Z. **Field controlled experiments on the physiological responses of maize (Zea mays L.) leaves to low-level air and soil mercury exposures**. Environ. Science and Pollution Research, 2014, 21(2), 1541–1547.
https://doi.org/10.1007/s11356-013-2047-5

2012

Sarah E. Rothenberg, Xinbin Feng. **Mercury cycling in a flooded rice paddy**. Journal of Geophysical Research, 2012, 117, G03003. https://doi.org/10.1029/2011JG001800

Higueras P., Amorós J. A., Esbrí J. M., García-Navarro F. J., Pérez de los Reyes C., Moreno G. **Time and space variations in mercury and other trace element contents in olive tree leaves from the Almadén Hg-mining district**. J. Geochemical Exploration, 2012, 123, 143–151.
https://doi.org/10.1016/j.gexplo.2012.04.012

Kelly J. G., Han F. X., Su Y., Xia Y., Philips V., Shi Z., Monts D. L., Pichardo S. T., Xia K. **Rapid determination of mercury in contaminated soil and plant samples using portable mercury direct analyzer without sample preparation, a comparative study**. Water, Air & Soil Pollution, 2012, 223(5), 2361–2371. https://doi.org/10.1007/s11270-011-1030-3

Park J., Song W.-Y., Ko D., Eom Y., Hansen T. H., Schiller M., Lee T. G., Martinoia E., Lee Y. **The phytochelatin transporters AtABCC1 and AtABCC2 mediate tolerance to cadmium and mercury**. The Plant Journal, 2012, 69(2), 278–288. https://doi.org/10.1111/j.1365-313X.2011.04789.x

Wang J., Feng X., Anderson C. W. N., Wang H., Zheng L., Hu T. **Implications of mercury speciation in thiosulfate treated plants**. Environmental Science & Technology, 2012, 46(10), 5361–5368. https://doi.org/10.1021/es204331a

2011

Sarah E. Rothenberg, Xinbin Feng, Bin Dong, Lihai Shang, Runsheng Yin, Xiaobo Yuan. **Characterization of mercury species in brown and white rice (Oryza sativa L.) grown in water-saving paddies.** Environmental Pollution, 2011, 159, 1283-1289. https://doi.org/10.1016/j.envpol.2011.01.027

Rothenberg S. E., Feng X., Zhou W., Tu M., Jin B., You J. **Environment and genotype controls on mercury accumulation in rice (Oryza sativa L.) cultivated along a contamination gradient in Guizhou, China**. Science Total Environment, 2012, 426, 272–280. https://doi.org/10.1016/j.scitotenv.2012.03.024

Rothenberg S. E., Feng X. **Mercury cycling in a flooded rice paddy**. J. Geophysical Research, 2012, 117, Paper G03003. https://doi.org/10.1029/2011JG001800

John G. Kelly, Fengxiang X. Han,Yi Su, Yunjun Xia, Valerie Philips, Zhiqi Shi, David L. Monts, Sergio T. Pichardo, Kang Xia. **Rapid Determination of Mercury in Contaminated Soil and Plant Samples Using Portable Mercury Direct Analyzer without Sample Preparation, a Comparative Study**. Water Air Soil Pollut., 2012 223, 2361–2371. https://doi.org/10.1007/s11270-011-1030-3

Tanja Ljubic Mlakar, Milena Horvat, Jože Kotnik, Zvonka Jeran, Tomaž Vuk, Tanja Mrak, Vesna Fajon. **Biomonitoring with epiphytic lichens as a complementary method for the study of mercury contamination near a cement plant.** Environ Monit Assess., 2011, 181, 225–241. https://doi.org/10.1007/s10661-010-1825-5

A. Martínez-Coronado, R. Oyarzun, J.M. Esbrí, W. Llanos, P. Higueras. **Sampling high to extremely high Hg concentrations at the Cerco de Almadenejos, Almadén mining district (Spain): The old metallurgical precinct (1794 to 1861 AD) and surrounding areas**. J. Geochem. Explor., 2011, 109, 70–77. https://doi.org/10.1016/j.gexplo.2010.04.007

Yujin Eom, Jong Hyun Won, Jae-Yong Ryu, and Tai Gyu Lee. **Biosorption of mercury(II) ions from aqueous solution by garlic (Allium sativum L.) powder**. Korean J. Chem. Eng., 28(6), 1439-1443 (2011). https://doi.org/ 10.1007/s11814-010-0514-y

A. Yasutake, J.P. Cheng, M. Kiyono, S. Uraguchi, X. Liu, K. Miura, Y. Yasuda, and N. Mashyanov. **Rapid Monitoring of Mercury in Air from an Organic Chemical Factory in China Using a Portable Mercury Analyzer**. TheScientificWorldJOURNAL, 2011, 11, 1630–1640. https://doi.org/10.1100/2011/493207

Niu Z., Zhang X., Wang Z., Ci Z. **Field controlled experiments of mercury accumulation in crops from air and soil**. Environmental Pollution, 2011, 159(10), 2684–2689. https://doi.org/10.1016/j.envpol.2011.05.029

Niu Z. C., Zhang X. S., Wang Z. W., Ci Z. J. **Mercury in leaf litter in typical suburban and urban broadleaf forests in China**. J. Environ. Sciences, 2011, 23(12), 2042–2048. https://doi.org/10.1016/S1001-0742(10)60669-9

Wang J., Feng X., Anderson C. W. N., Zhu W., Yin R., Wang H. **Mercury distribution in the soil–plant–air system at the Wanshan mercury mining district in Guizhou, Southwest China**. Environmental Toxicology and Chemistry, 2011, 30(12), 2725–2731. https://doi.org/10.1002/etc.681

2010

Zhang H., Feng X., Larssen T., Guangle Qiu, Vogt R. D. **In Inland China, rice, rather than fish, is the major pathway for methylmercury exposure**. Environmental Health Perspectives, 2010, 118(9), 1183–1188. https://doi.org/10.1289/ehp.1001915

Meng B., Feng X., Qiu G., Cai Y., Wang D., Li P., Shang L., Sommar J. **Distribution patterns of inorganic mercury and methylmercury in tissues of rice (Oryza sativa L.) plants and possible bioaccumulation pathways**. J. Agricultural and Food Chemistry, 2010, 58(8), 4951–4958. https://doi.org/10.1021/jf904557x

Martin R. S., Mather T. A., Pyle D. M., Day J. A., Witt M. L. I., Collins S. J., Hilton R. G. **Major and trace element distributions around active volcanic vents determined by analyses of grasses: implications for element cycling and bio-monitoring**. Bulletin of Volcanology, 2010, 72(8), 1009–1020. https://doi.org/10.1007/s00445-010-0374-7

2009

Oyarzun R., Cubas P., Higueras P., Lillo J., Llanos W. **Environmental assessment of the arsenic-rich, Rodalquilar gold–(copper–lead–zinc) mining district, SE Spain: data from soils and vegetation**. Environmental Geology, 2009, 58, № 4, 761–777. https://doi.org/10.1007/s00254-008-1550-3

Wang Z., Zhang X., Xiao J., Zhijia C., Yu P. **Mercury fluxes and pools in three subtropical forested catchments, Southwest China**. Environmental Pollution, 2009, 157(3), 801–808. https://doi.org/10.1016/j.envpol.2008.11.018

2008

Battke F., Ernst D., Fleischmann F., Halbach S. **Phytoreduction and volatilization of mercury by ascorbate in Arabidopsis thaliana, European beech and Norway spruce**. Applied Geochemistry, 2008, 23(3), 494–502. https://doi.org/10.1016/j.apgeochem.2007.12.023

2007

Rodriguez, L., Rincon, J., Asencio, I., and Castellanos, L. R. **Capability of selected crop plants for shoot mercury accumulation from polluted soils: Phytoremediation perspectives**. Int. J. Phytoremediat., 9, 1–13, 2007. https://doi.org/ 10.1080/15226510601139359

2006

Ru-Jin Huang, Zhi-Xia Zhuang, Yi Tai, Rong-Fu Huang, Xiao-Ru Wang, Frank S.C. Lee. **Direct analysis of mercury in Traditional Chinese Medicines using thermolysis coupled with on-line atomic absorption spectrometry**. Talanta. 2006, 68, 728–734. https://doi.org/10.1016/j.talanta.2005.05.014

Molina J. A., Oyarzun R., Esbri J. M., Higueras P. **Mercury accumulation in soils and plants in the Almaden mining district, Spain: one of the most contaminated sites on Earth.** Environmental Geochemistry and Health, 2006, 28(5), 487–498. https://doi.org/10.1007/s10653-006-9058-9

2005

Battke F., Ernst D., Halbach S. **Ascorbate promotes emission of mercury vapour from plants**. Plant, Cell and Environment (2005) 28, 1487–1495. https://doi.org/10.1111/j.1365-3040.2005.01385.x

2004

P. Higueras, J.A. Molina, R. Oyarzun, J. Lillo, J.M. Esbrí. **Identification of the plant-communities and hyperaccumulators in mercury contaminated sectors of the Almadén district, Spain**. RMZ- M&G, 2004, 51, 103-107.

2001

Bin C., Xiaoru W., Lee F.S.C. **Pyrolysis coupled with atomic absorption spectrometry for the determination of mercury in Chinese medicinal materials**. Analytica Chimica Acta, 2001, V. 447, 1–2, 161–169. https://doi.org/10.1016/S0003-2670(01)01218-1

Soils, sediments

2026

Resta, G., Santos, P., Monteiro, M., Melo, R., Carvalho, M., Carvalho, A., ... & Flores, D. **Soil contamination assessment of a 19th-century abandoned Sb–Au mine in northern Portugal.** Environmental Geochemistry and Health, 2026, 48(11), 472. https://doi:10.1007/s10653-026-03359-6

Paine, A. R., Frieling, J., Wagner, B., Francke, A., Lacey, J. H., Mather, T. A., ... & Pyle, D. M. **Terrestrial regulation of lacustrine Hg deposition during glacial-interglacial cycles**. Paleoceanography and Paleoclimatology,2026, 41(4). https://doi:10.1029/2025PA005245

Cortes, J. E. A., Nait-Kaci, L., & Fatin-Rouge, N. **Comparative study of zero-valent mercury immobilization by solidification/stabilization in a limestone backfill model**. Chemosphere, 2026, 407, 144974. https://doi:10.1016/j.chemosphere.2026.144974

García-Donas, N., Lorenzo, S., Higueras, P., Ávalos, O. A., García-Donas, A., Jaeger, J., & Barquero, J. I. **Spatial Distribution of Mercury and Potentially Toxic Elements in Soils from an Agricultural and Grazing Area Affected by Historical Mining**. Applied Sciences, 2026, 16(17), 8465. https://doi:10.3390/app16178465

Vázquez-Rangel, A., Romero-Bazán, A., Higueras, P., Quiñones, M. A., Pueyo, J. J., & Rincón, A. **Long-term mercury contamination affects soil properties and function**. Pedosphere, 2026, ISSN 1002-0160. https://doi:10.1016/j.pedsph.2026.07.010

Monteiro, L. C., Garnier, J., de Almeida, R., Bastos, W. R., Filomeno, C. L., de Souza, R. N., ... & Bernardi, J. V. E. **Experimental simulations and regional estimates of mercury emissions from fire-affected Cerrado soils (Central Brazil)**. Applied Geochemistry, 2026, 208, 107008. https://doi:10.1016/j.apgeochem.2026.107008

Sun, X., Jia, R., Yin, R., & Yang, X. **Anomalous mercury isotopic composition highlights the essential role of terrestrial erosion in forming cold seeps in the continental margin of the South China Sea**. Journal of Asian Earth Sciences, 2026, 107253. https://doi:10.1016/j.jseaes.2026.107253

Bos, R., Rohovec, J., Navrátil, T., Kegel, A. H., Bolt, T. R., Lindström, S., ... & van de Schootbrugge, B. **Hg-accumulation in above-ground fern biomass and spore malformations around industrial sites (Czechia): Implications for mass extinction scenarios**. Chemosphere, 2026, 410, 145025. https://doi:10.1016/j.chemosphere.2026.145025

Sattarova, V., Bekesha, I., Melgunov, M., Mariash, A., Huang, X., Aksentov, K., & Dasgupta, S. **Mercury in the deep-sea sediments of the western Aleutian Trench: Spatio-temporal distribution and risk assessment**. Deep Sea Research Part I: Oceanographic Research Papers, 2026, 230, 104696. https://doi:10.1016/j.dsr.2026.104696

Gonzalez-Valoys, A. C., Segundo, F., Zambrano-Anchundia, J. L., Jiménez-Oyola, S., Gallego, J. R., García-Ordiales, E., ... & Higueras, P. **Assessment of Soil Contaminants and Human Health Risks in the Petaquilla Mine (Panama): Implications for Site Restoration**. Minerals, 2026, 16(5), 522. https://doi:10.3390/min16050522

Jakub, K., Jiřina, S., Lukáš, P., Jiřina, S., Luka, S., & Pavel, T. **Mercury (Hg) Speciation in the Soil–Plant System of Formerly Polluted Soils**. Applied Sciences, 2026, 16(11), 5405. https://doi:10.3390/app16115405

Penalba-Iglesias, D., Robas-Mora, M., González-Reguero, D., Fernández-Pastrana, V. M., Lobo, A. P., & Jiménez-Gómez, P. A. **A novel Bacillaceae bacterium enhances phytoprotection and mercury detoxification in contaminated soils**. Ecotoxicology and Environmental Safety, 2026, 319, 120261. https://doi:10.1016/j.ecoenv.2026.120261

Fan, R., Li, X., Hao, S., Yuliang, X., Zong, J., Gao, Y., ... & Zhang, G. **Environmental processes and ecosystem services of self-purifying mercury in constructed wetlands in industrial cities: a case study of the main urban area of Changchun, Yitong River**. Frontiers in Environmental Science, 2026, 14, 1751485. https://doi:10.3389/fenvs.2026.1751485

da Silveira Tortolero Araujo Lourenço, M., Debruyne, D., Di Maggio, R. M., Germinario, C., Grifa, C., Izzo, F., ... & Mercurio, M. **Legacy and Ongoing Mercury Contamination in Soils from ASGM Sites in the Tapajós Gold Province, Pará, Brazil**. Soil and Sediment Contamination: An International Journal, 2026, 1-31. https://doi:10.1080/15320383.2026.2693904

Floreani, F., Vecchio, A., Guerra, M., Mariani, E., Mulas, G., Covelli, S., Spinelli, L., Virgili, G. **Gaseous mercury fluxes from soils and health risk assessment at a coastal legacy industrial site**. Environmental Pollution, 2026. https://doi:10.1016/j.envpol.2026.128400

Baenguev, B., Belogolova, G., Chuparina, E., Minkina, T., & Kravchenko, E. **Arsenic and heavy metals in reclaimed soils of sulfide-containing waste dumps: contamination levels, spatial distribution, bioavailability, and health risk assessment**. Environmental Research, 2026, 124544. https://doi:10.1016/j.envres.2026.124544

Lodygin, E. D., Nizovtsev, A. N., Nesterov, B. A., & Alekseev, I. I. **Mercury in the Background Tundra Soils of the Northeastern European Russia**. Eurasian Soil Science, 2026, 59(3), 38. https://doi:10.1134/S1064229325603932

Gustaytis, M., Maltsev, A., Leonova, G., & Krivonogov, S. **Mercury species in zooplankton, brine, and bottom sediments of Hyperhaline Lake Bolshoye Yarovoye (South of Western Siberia)**. Environmental Earth Sciences, 85(1), 32. https://doi:10.1007/s12665-025-12735-x

Barquero, J. I., Higueras, P., Esbrí, J. M., Jaeger, J. L., & García-Ordiales, E. **Evaluation of the new role of the invasive species (Procambarus clarkii) as an environmental indicator in polluted watersheds**. Environmental Geochemistry and Health, 2026, 48(2), 82. https://doi:10.1007/s10653-025-02953-4

Gyamfi, O., Doe Arthur-Jim, P., Manasseh Awotwe, B., Ansah, E., Sheringham Borquaye, L., Dodd, M., & Darko, G. **Distribution and sediment quality of heavy metals in riverine sediments in Kumasi, Ghana**. Soil and Sediment Contamination: An International Journal, 2026, 1-15. https://doi:10.1080/15320383.2025.2612287

Lodygin, E. **Spatial Patterns of Mercury and Geochemical Baseline Values in Arctic Soils**. Soil Systems, 2026, 10(1), 14. https://doi:10.3390/soilsystems10010014

Myagkaya, I. N. **Representativeness of assessment methods for background concentrations of potentially toxic elements in soils and air within the gold-sulfide deposit area**. Environmental Monitoring and Assessment, 2026, 198(1), 1. https://doi:10.1007/s10661-025-14760-6

de Britto Pedrosa, R. F. C., Monteiro, L. C., Rodrigues, Y. O. S., Bernardi, J. V. E., & Rodrigues, E. V. **Spatial Distribution of Mercury in Vegetation and Soil in a Conservation Unit Near Highways**. Water, Air, & Soil Pollution, 2026, 237(2), 1-14. https://doi:10.1007/s11270-025-08797-z

2025

Chaverra, L. M., Cuervo, D. P., & Gutiérrez, A. L. **Mercury accumulator plants with phytoremediation potential in a region of northwestern Colombia**. Environmental Science and Pollution Research, 2025, 1-19. https://doi:10.1007/s11356-025-37078-9

Barquero, J.I., Peco, J., Villena, J., Campos, J.A., Amorós, J.A., Esbrí, J.M., García-Navarro, F.J., Moreno, M.M., Higueras, P. **Transference of potentially toxic elements from soils to plants in a derelict Pb-Zn mining area (San Quintín mine, South-Central Spain)**. Applied Geochemistry, 2025, 106637. https://doi:10.1016/j.apgeochem.2025.106637

V.I. Malov, V.D. Strakhovenko, M.A. Gustaitis, E.A. Ovdina, G.I. Malov. **Assessment of mercury flux to bottom sediments in high-altitude small lakes of the Altai mountains (Ukok Plateau, Altai Republic)**. Russian Geology and Geophysics, 2025. https://doi:10.2113/RGG20254918

Ramirez-Ortiz, J., Duran-Izquierdo, M., Sierra-Marquez, L., & Olivero-Verbel, J. **Evaluation of Mercury Contamination in Chickens (Gallus gallus) and Soils in an Artisanal Gold Mining Area in San Martin De Loba, Bolivar, Colombia**. Bulletin of Environmental Contamination and Toxicology, 2025, 115(3), 41. https://doi:10.1007/s00128-025-04096-9

Fang, K., He, Y., Rao, S., Wang, J., Xu, J., & Shi, J. **Neglected but significant: High mercury alkylation but low carbon sequestration in paddy field as revealed by soil profiles survey**. Journal of Environmental Sciences, 2025. https://doi:10.1016/j.jes.2025.08.016

Namyatov, A. A., Usyagina, I. S., Meshcheriakov, N. I., Ivanova, N. S., & Boyko, V. V. **A reconstruction of radioactive and chemical pollution of the Grønfjorden (bay), West Spitsbergen Island (Svalbard archipelago)**. Environmental Science and Pollution Research, 2025б 1-33. https://doi:10.1007/s11356-025-36303-9

Ajiboye, O. R., Lawal-Are, A. O., Obiakara-Amaechi, A. I., & Moruf, R. O. **Preliminary Ecological Risk Assessment of Toxic Elements in Fish Cage Culture Sites within the Interconnected Epe and Badagry Lagoons, Nigeria**. Acta Natura et Scientia, 2025, 6(1), 1-11. https://doi:10.61326/actanatsci.v6i1.322

Zhao, Q., Wang, Z., Zhang, H., Xu, Z., & Zhang, X. **Accumulation and Spatial Distribution of Mercury in Soil and Litterfall in Urban Areas of Beijing, China**. Journal of Hazardous Materials Advances, 2025, 100821. https://doi:10.1016/j.hazadv.2025.100821

Johs, A., Goñez-Rodríguez, L., Brooks, S. C., & Mayes, M. A. **Mobilization of mercury from contaminated creekbank soils**. Journal of Soils and Sediments, 2025, 1-12. https://doi:10.1007/s11368-025-04014-w

Aksentov, K., Sattarova, V., Lopatnikov, E., Alatorsev, A., Kim, D., Budanov, L., ... & Selutin, S. **Features of mercury geochemistry and the dynamics of its accumulation in bottom sediments of the northwestern Bering Sea over the past 150 years**. Marine Pollution Bulletin, 2025, 215, 117907. https://doi:10.1016/j.marpolbul.2025.117907

Paine, A. R., Frieling, J., Shanahan, T. M., Mather, T. A., McKay, N., Robinson, S. A., Pyle, D. M., Fendley, I. M., Kiely, R., and Gosling, W. D. **Evidence for millennial-scale interactions between Hg cycling and hydroclimate from Lake Bosumtwi, Ghana**. Clim. Past, 2025, 21, 817–839. https://doi:10.5194/cp-21-817-2025

Asamoah, B. D., Yevugah, L. L., Borquaye, L. S., Dodd, M., & Darko, G. **Receptor modeling, ecological risks, and human health impacts of mercury in some Ghanaian topsoils due to mining and commercial activities**. Environmental Toxicology and Chemistry, 2025, vgaf054. https://doi:10.1093/etojnl/vgaf054

Javier, G. B., Juan, V. V., Margareth, D. I., Lucellys, S. M., & Jesus, O. V. **Environmental pollution by mercury and trace metals in highly vulnerable afro-descendant territories in the Department of Cauca, Colombia**. Soil and Sediment Contamination: An International Journal, 2025, 34(3), 510-527. https://doi:10.1080/15320383.2024.2359067

Zhang, L., Guo, L., Shi, D., & Bao, C. **Mercury isotope signatures in soils reveal degassing from fault zones on the eastern margin of the Tibetan Plateau**. Applied Geochemistry, 2025, 106341. https://doi:10.1016/j.apgeochem.2025.106341

Covelli, S., Pisoni, C., Pavoni, E., Floreani, F., Petranich, E., Adami, G., ... & Busetti, M. **Lithogenic and anthropogenic contributions of trace metal(oid)s in coastal sediments near the Port of Trieste (northern Adriatic Sea): A geochemical normalisation approach based on regional background values**. Marine Pollution Bulletin, 2025, 214, 117774. https://doi:10.1016/j.marpolbul.2025.117774

Frimpong, E., Ankapong, E., Boakye, K. O., Ansah, E., Gyamfi, O., Barnes, B., ... & Darko, G. **Uptake and in-vitro bioaccessibility of toxic metals in cocoa beans: Human health risks**. Environmental Geochemistry and Health,2025, 47(2), 33. https://doi:10.1007/s10653-024-02345-0

Huang, H., Deng, C., Grasby, S. E., Cawood, P. A., Hou, M., Yang, C., ... & Yin, R. **Mercury evidence of Emeishan volcanism driving the mid-Capitanian (Middle Permian) extinction**. Geological Society of America Bulletin, 2025, 137(3-4), 1177-1184. https://doi:10.1130/B37796.1

2024

Sánchez, S., Baragaño, D., Gallego, J. R., López-Antón, M. A., Forján, R., & González, A. **Valorization of steelmaking slag and coal fly ash as amendments in combination with Betula pubescens for the remediation of a highly As-and Hg-polluted mining soil**. Science of the Total Environment, 2024, 927, 172297. https://doi:10.1016/j.scitotenv.2024.172297

Zhang, T., Hu, Y., Wu, J., Yin, S., Huang, J., Huang, W., ... & Zhang, G. **Characteristics and risk assessments of mercury pollution in a county region undergoing industrialization in northeastern China: a case study in Gongzhuling**. Frontiers in Environmental Science, 2024, 12, 1440426. https://doi:10.3389/fenvs.2024.1440426

Zong, J., Zhang, H., Li, X., Bai, X., Hu, Y., Cui, D., ... & Zhang, G. **Process of mercury accumulation in urban strip river artificial wetland ecosystems: a case study of Changchun, a typical industrial city in Northeast China**. Frontiers in Plant Science, 2024, 15, 1392904. https://doi:10.3389/fpls.2024.1392904

Fang, K., He, Y., Xu, J., & Shi, J. **Synchronous influence of soil amendments on alkylmercury and methane emissions in mercury-contaminated paddy soil**. Science of The Total Environment, 2024, 946, 174415. https://doi:10.1016/j.scitotenv.2024.174415

Fendley, I. M., Frieling, J., Mather, T. A., Ruhl, M., Hesselbo, S. P., & Jenkyns, H. C. **Early Jurassic large igneous province carbon emissions constrained by sedimentary mercury.** Nature Geoscience, 2024, 17(3), 241-248. https://doi:10.1038/s41561-024-01378-5

Meloni, F., Higueras, P. L., Cabassi, J., Nisi, B., Rappuoli, D., & Vaselli, O. **Thermal desorption technique to speciate mercury in carbonate, silicate, and organic-rich soils**. Chemosphere, 2024, 365, 143349. https://doi:10.1016/j.chemosphere.2024.143349

Floreani, F., Pavoni, E., Petranich, E., Antonini, P., Mauri, M., & Covelli, S. **Mercury speciation in soils through thermo-desorption technique as a rapid screening tool for risk assessment procedure at mercury-contaminated sites**. No. EGU24-10434, Copernicus Meetings, 2024. https://doi:10.5194/egusphere-egu24-10434

Javier, G. B., Juan, V. V., Margareth, D. I., Lucellys, S. M., & Jesus, O. V. **Environmental pollution by mercury and trace metals in highly vulnerable afro-descendant territories in the Department of Cauca, Colombia.** Soil and Sediment Contamination: An International Journal, 2024, 1-18. https://doi:10.1080/15320383.2024.2359067

Sarpong, L., Boadi, N. O., Nimako, C., Bortey–Sam, N., & Akoto, O. **Contamination, health risk assessment, and spatial distribution of heavy metals in soils from gold mining district, Ghana**. International Journal of Environmental Science and Technology, 2024, 1-24. https://doi:10.1007/s13762-024-06173-8

Meloni, F., Higueras, P. L., Cabassi, J., Nisi, B., Rappuoli, D., & Vaselli, O. **Thermal desorption technique to speciate mercury in carbonate, silicate, and organic-rich soils**. Chemosphere, 2024, 143349. https://doi:10.1016/j.chemosphere.2024.143349

Gomez, F. H., Pelegri, N., Lopez, J. G., Torres, K. C., & Vaccari, M. **Impact of Artisanal Gold Mining in Community Conserved Areas with High Biodiversity Using a Multi-Criteria Approach: A Case Study in Colombia**. Pollutants, 2024, 4(2), 276-290. https://doi:276-290.10.3390/pollutants4020018

Sun, Y., & Yang, C. **Soil Mercury Pollution of Hainan Island, China: Patterns, Influencing Factors, and Health Risks**. Sustainability, 2024, 16(7), 3083. https://doi:10.3390/su16073083

Quintarelli, J. M., Garnier, J., de Souza, J. P. R., de Sousa Tonhá, M., Barral, U. M., Roig, H. L., ... & Souza, J. R. **Mercury in river samples with artisanal and small-scale gold mining influence: The case of the upper Madeira River Basin (Brazil/Bolivia)**. Journal of South American Earth Sciences, 2024, 145, 105070. d https://oi:10.1016/j.jsames.2024.105070

Cao, Q., Hu, H., Yuan, W., Huang, J. H., Fu, X., & Feng, X. **Isotope-Based Characterization of Soil Elemental Mercury Emissions from Historical Mercury Mining Areas: Driving Pathways and Relative Contributions**. Environmental Science & Technology, 2024. https://doi:10.1021/acs.est.4c05220

Strickman, R. J., Larson, S., Farhat, Y. A., Van Anh, T. H., Rothenberg, S. E., & Neumann, R. B. **Effects of elevated CO_2 on MeHg and IHg in rice**. Environmental Advances, 2024, 16, 100515. https://doi:10.1016/j.envadv.2024.100515

Paine, A., Frieling, J., Shanahan, T., Mather, T., McKay, N., Robinson, S., ... & Gosling, W. **New evidence for millennial-scale interactions between Hg cycling and hydroclimate from Lake Bosumtwi, Ghana**. EGUsphere, 2024, 1-31. https://doi:10.5194/egusphere-2024-2123

Álvarez, R., Izquierdo, M., Serrano, H., García-Ordiales, E., García, C., Alberquilla, F., ... & Ordóñez, A. **Comparison of sediment bioavailable methods to assess the potential risk of metal (loid) s for river ecosystems**. Ecotoxicology and Environmental Safety, 2024, 281, 116614. https://doi.org/10.1016/j.ecoenv.2024.116614

Walker-Trivett, C.A., Kender, S., Bogus, K.A. et al. **Oceanic Anoxic Event 2 triggered by Kerguelen volcanism**. Nat Commun, 2024, 15, 5124. https://doi.org/10.1038/s41467-024-49032-3

Indraswari, A. O., Frieling, J., Mather, T. A., Dickson, A. J., Jenkyns, H. C., & Idiz, E. **Investigating the behavior of sedimentary mercury (Hg) during burial-related thermal maturation**. Geochemistry, Geophysics, Geosystems, 25, e2024GC011555. https://doi.org/10.1029/2024GC011555

Barquero, J.I., Lorenzo, S., Rivera, S., González-Valoys, A.C., García-Ordiales, E., Esbrí, J. M., Higueras, P. **Biogeochemical prospecting of metallic critical raw materials: soil to plant transfer in SW Ciudad Real Province, Spain**. Environmental Science and Pollution Research, 2024, 31(20), 29536-29548. https://doi.org/10.1007/s11356-024-33097-0

Yi Tang, Yang Liu, Yong He, Jiaodi Zhang, Huaming Guo, Wenxin Liu**. Quantifying the impact of anthropogenic emissions and aquatic environmental impacts on sedimentary mercury variations in a typical urban river**. Environmental Pollution, 2024, 355, 124185. https://doi.org/10.1016/j.envpol.2024.124185

Bos, R., Zheng, W., Lindström, S., Sanei, H., Waajen, I., Fendley, I. M., ... & van de Schootbrugge, B. **Climate-forced Hg-remobilization associated with fern mutagenesis in the aftermath of the end-**

Triassic extinction. Nature Communications, 2024, 15(1), 3596. https://doi.org/10.1038/s41467-024-47922-0

Sánchez, S., Baragaño, D., Gallego, J.R., López-Antón, M.A., Forján, R., & González, A. **Valorization of steelmaking slag and coal fly ash as amendments in combination with Betula pubescens for the remediation of a highly As-and Hg-polluted mining soil**. Science of The Total Environment, 2024, 172297. https://doi.org/10.1016/j.scitotenv.2024.172297

Barquero, J.I., Lorenzo, S., Rivera, S., González-Valoys, A.C., García-Ordiales, E., Esbrí, J.M., & Higueras, P. **Biogeochemical prospecting of metallic critical raw materials: soil to plant transfer in SW Ciudad Real Province, Spain**. Environmental Science and Pollution Research, 2024, 1-13. https://doi.org/10.1007/s11356-024-33097-0

Zhu, W., Li, Z., Li, P., Sommar, J., Fu, X., Feng, X., ... & Pereira, E. **Legacy Mercury Re-emission and Subsurface Migration at Contaminated Sites Constrained by Hg Isotopes and Chemical Speciatio**n. Environmental Science & Technology, 2024, 58 (12), 5336-5346. https://doi.org/10.1021/acs.est.3c07276

Barbara, N., Meloni, F., Cabassi, J., and Vaselli, O. **Mercury contamination in a former mining plant of NW Tuscany (central Italy)**. EGU General Assembly, 2024, EGU24-15864. https://doi.org/10.5194/egusphere-egu24-15864

Floreani, F., Pavoni, E., Petranich, E., Antonini, P., Mauri, M., and Covelli, S. **Mercury speciation in soils through thermo-desorption technique as a rapid screening tool for risk assessment procedure at mercury-contaminated sites**. EGU General Assembly, 2024, EGU24-10434, https://doi.org/10.5194/egusphere-egu24-10434

Huo, Z., Li, Z., Guan, P., Shi, F., Jiang, H., He, C., & Wang, Z. **Effect of heavy metal contamination on soil nematode communities in urban brownfields**. Global Ecology and Conservation, 2024, 49. https://doi.org/10.1016/j.gecco.2023.e02787

Kgabi, D.P., & Ambushe, A.A. **Quantification and thermo-desorption studies of mercury in sediments from Mokolo River, Limpopo Province, South Africa**. International Journal of Environmental Analytical Chemistry, 2024, 104(3), 672-685. https://doi.org/10.1080/03067319.2021.2024524

Dai, L., Zhang, B., Liao, X., Wang, L., Zhang, Q., Tian, S., ... & Rinklebe, J. **Catchment land use effect on mercury concentrations in lake sediments: A high-resolution study of Qinghai Lake**. Science of The Total Environment, 2024, 916, 170260. https://doi.org/10.1016/j.scitotenv.2024.170260

Monteiro, L.C., Vieira, L.C.G., Bernardi, J.V.E., do Nascimento Recktenvald, M.C.N., da Costa Nery, A.F., Fernandes, I.O., ... & Bastos, W.R. **Mercury distribution, bioaccumulation, and biomagnification in riparian ecosystems from a Neotropical savanna floodplain, Araguaia River, Central Brazil**. Environmental Research, 2024, 118906. https://doi.org/10.1016/j.envres.2024.118906

Fernandes, I.O., Monteiro, L.C., de Miranda, V.L., Rodrigues, Y.O.S., de Freitas Muniz, D.H., de Castro Paes, É., & Bernardi, J.V.E. **Mercury distribution in organisms, litter, and soils of the Middle Araguaia floodplain in Brazil**. Environmental Science and Pollution Research, 2024, 1-16. https://doi.org/10.1007/s11356-024-32317-x

Paine, A. R., Fendley, I. M., Frieling, J., Mather, T. A., Lacey, J. H., Wagner, B., ... & Panagiotopoulos, K. **Mercury records covering the past 90 000 years from lakes Prespa and Ohrid, SE Europe**. Biogeosciences, 2024, 21(2), 531-556. doi:10.5194/bg-21-531-2024, 2024

Prishchepenko, D.V., Ryabchuk, D.V., Zhamoida, V.A., Sergeev, A.Y., Leontev, F.A., Grigoriev, A.G., ... & Kovaleva, O.A. **Main trends and results of 300-years anthropogenic impact on the geological environment and ecosystem of the Eastern Gulf of Finland**. Continental Shelf Research, 2023, 265, 105058. https://doi.org/10.1016/j.csr.2023.105058

Esbrí, J.M., Minang, C.M., Rivera, S., Madrid-Illescas, M., García-Noguero, E., González-Valoys, A., ... & Higueras, P.L. **Evaluation of antimony availability in a mining context: Impact for the environment, and for mineral exploration and exploitation**. Chemosphere, 2023, 311, 137086. https://doi.org/10.1016/j.chemosphere.2022.137086

Aksentov, K.I., Ivanov, M.V., Yaroshchuk, E.I., Charkin, A.N., Sattarova, V.V., Alatortsev, A.V., ... & Startsev, A.V. (2023, November). **The First Data on the Mercury Content and Its Forms in the Ferromanganese and Ferruginous Formations of Chaun Bay**. In: Doklady Earth Sciences, 2023,1-5. Moscow: Pleiades Publishing. https://doi.org/10.1134/S1028334X23602183

Seleznev, D., Dinh, C.N., Hai, T.B., Karpova, E., Chi, D.T.K., Kosolapov, D., ... & Tiunov, A.V. **Biodiversity of aquatic organisms in the Mekong Delta, Vietnam**. Biodiversity Data Journal, 2023, 11. https://doi.org/10.3897/BDJ.11.e105314

Monteiro, L.C., Vieira, L.C.G., Bernardi, J.V.E., Bastos, W R., de Souza, J.P.R., do Nascimento Recktenvald, M.C.N., ... & de Souza, J.R. **Local and landscape factors influencing mercury distribution in water, bottom sediment, and biota from lakes of the Araguaia River floodplain, Central Brazil**. Science of The Total Environment, 2023, 168336. https://doi.org/10.1016/j.scitotenv.2023.168336

Moraes, L.d.C.; Bernardi,J.V.E.; Souza, J.P.R.d.; Portela, J.F.;Pereira, H.R.; Barbosa, H.d.O.; Pires,N.L.; Monteiro, L.C.; Rodrigues,Y.O.S.; Vieira, L.C.G.; et al. **Mercury Contamination as an Indicator of Fish Species' Trophic Position in the Middle Araguaia River, Brazil**. Toxics, 2023, 11, 886. https://doi.org/10.3390/tox-ics1111088

Moraes, L.; Bernardi, J.V.E.; de Souza, J.P.R.; Portela, J.F.; et al. **Sediment Mercury, Geomorphology and Land Use in the Middle Araguaia River Floodplain (Savanna Biome, Brazil)**. Soil Systems, 2023, 7(97). https://doi.org/10.3390/soilsystems7040097

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2023, 45, 3555–3565. https://doi.org/10.1007/s10653-022-01441-3

Meloni, F., Farieri, A., Higueras, P. L., Esbrí, J. M., Nisi, B., Cabassi, J., Rappuoli, D. & Vaselli, O. **Mercury distribution in plants and soils from the former mining area of Abbadia San Salvatore (Tuscany, central Italy)**. Environmental Geochemistry and Health, 2023. https://doi.org/10.1007/s10653-023-01739-w

Paine, A. R., Fendley, I. M., Frieling, J., Mather, T. A., Lacey, J. H., Wagner, B., ... & Panagiotopoulos, K. **Mercury records covering the past 90 kyr from lakes Prespa and Ohrid, SE Europe**. EGUsphere, 2023, 1-37. https://doi.org/10.5194/egusphere-2023-1363

Dórea, J. G., Monteiro, L. C., Bernardi, J. V. E., Fernandes, I. O., Oliveira, S. F. B., de Souza, J. P. R., ... & de Souza, J. R. **Land use impact on mercury in sediments and macrophytes from a natural lake in the Brazilian savanna**. Environmental Pollution, 122414. https://doi.org/10.1016/j.envpol.2023.122414

Gordeeva, O., & Pastukhov, M. **Forms of mercury in soils and its accumulation by herbs in the zone of influence of the sludge storage of a chlor-alkali plant (Southern Baikal region)**. In E3S Web of Conferences, 2023, 417, 02013. https://doi.org/10.1051/e3sconf/202341702013

Barago, N., Mastroianni, C., Pavoni, E., Floreani, F., Parisi, F., Lenaz, D., & Covelli, S. **Environmental impact of potentially toxic elements on soils, sediments, waters, and air nearby an abandoned Hg-rich fahlore mine (Mt. Avanza, Carnic Alps, NE Italy)**. Environmental Science and Pollution Research, 2023, 1-22. https://doi.org/10.1016/j.envpol.2022.120921

Vöröš, D., Baizán, P. D., Slavíček, K., Díaz-Somoano, M., & Geršlová, E. **Mercury occurrence and speciation in sediments from hard coal mining in Czechia**. Journal of Hazardous Materials, 2023, 132204. https://doi.org/10.1016/j.jhazmat.2023.132204

Fernandes, I.O., Monteiro, L.C., De Miranda, V.L., Rodrigues, Y.O.S., Muniz, D.H.D.F., Paes, É.D.C., & Bernardi, J.V.E. **Mercury Dynamics in Organims, Litter, and Soils of the Middle Araguaia Floodplain in Brazil**. Research Square, 2023. doi: 10.21203/rs.3.rs-2398248/v1

Budko, D.F., & Nemirovskaya, I.A. **Organic Compounds and Metals in the Sediments of Meromictic Lakes Separated from the Kandalaksha Gulf of the White Sea**. Geochemistry International, 2023, 61(2), 184-202. https://doi.org/10.1134/S0016702923020027

Wu, Y., Tian, H., Yin, R., Chen, D., Grasby, S. E., Shen, J., ... & Ji, S. **Highly fractionated Hg isotope evidence for dynamic euxinia in shallow waters of the Mesoproterozoic ocean**. Earth and Planetary Science Letters, 2023, 616, 118211. https://doi.org/10.1016/j.epsl.2023.118211

J. Frieling, T.A. Mather, C. März, H.C. Jenkyns, R. Hennekam, G.-J. Reichart, C.P. Slomp, N.A.G.M. van Helmond. **Effects of redox variability and early diagenesis on marine sedimentary Hg records**. Geochimica et Cosmochimica Acta, 2023, 351, 78-95. https://doi.org/10.1016/j.gca.2023.04.015

Yevugah, L. L., Osei Jnr, E. M., Bak, J. L., Nkansah, M. A., & Darko, G. **Geospatial Distribution of Mercury in Surface Soils Across Ghana.** Chemistry Africa, 2023, 1-11. https://doi.org/10.1007/s42250-023-00681-9

Floreani, F.; Pavoni, E.; Gosar, M.; Covelli, S. **Evasion of Gaseous Elemental Mercury from Forest and Urban Soils Contaminated by Historical and Modern Ore Roasting Processes (Idrija, Slovenia)**. Atmosphere 2023, 14, 1036. https://doi.org/10.3390/atmos14061036

Vöröš, D., Baizán, P. D., Slavíček, K., Díaz-Somoano, M., & Gerslova, E. **Mercury Occurrence and Speciation in Sediments from Hard Coal Mining in Czechia**. Available at SSRN 4457130. https://doi.org/10.2139/ssrn.4457130

Pan, J.; Chen, M.; Zhang, Z.; Zhang, H.; Zong, J.;Wang, Z.; Zhang, G. **Risk Assessments of Plant Leaf and Soil Mercury Pollution in Different Functional Areas of Changchun City**. Forests, 2023, 14, 1108. https://doi.org/10.3390/f14061108

Wang, S., Song, Y., Wang, J., Liu, J., Huang, X., & Guo, P. **Research of Mercury Methylation and Biological Toxicity Effects of Different Inorganic Mercury in Mariculture Sediments**., 2013. https://doi.org/10.2139/ssrn.4411780

Sun, Y.; Zhang, Z.; Zhang, G.; Zong, J.; Zhang, H.; Deng, Y.; Yang, K.; Wang, Z.; Cui, D.; Yang, C. **Characteristics of Mercury Fluxes between Soil and Air in the Farming-Pastoral Ecotone of Songnen Grassland**. Sustainability, 2023, 15, 5416. https://doi.org/10.3390/su15065416

Vasilevich, R.; Vasilevich, M.; Lodygin, E.; Abakumov, E. **Geochemical Characteristics of the Vertical Distribution of Heavy Metals in the Hummocky Peatlands of the Cryolithozone**. Int. J. Environ. Res. Public Health, 2023(20), 3847. https://doi.org/10.3390/ijerph20053847

Vezzone, M., Cesar, R., Serrano, A., Lourenço, R., Rodrigues, A. P., Castilhos, Z., ... & Polivanov, H. **Mercury Contamination in Sediments and Fish from an Urban Tropical Estuary: Ecological and Human Health Risks**. Water, Air, & Soil Pollution, 2023, 234(2), 72. https://doi.org/10.1007/s11270-023-06089-y

Zhang, X., Tian, K., Wang, Y., Hu, W., Liu, B., Yuan, X., ... & Wu, L. **Identification of sources and their potential health risk of potential toxic elements in soils from a mercury-thallium polymetallic mining area in Southwest China: Insight from mercury isotopes and PMF model**. Science of The Total Environment, 2023, 161774. https://doi.org/10.1016/j.scitotenv.2023.161774

Kim, D., Aksentov, K., Astakhov, A., Sattarova, V., Ivanov, M., Alatorsev, A., Obrezkova, M., Selutin, S. **Geochemistry aspects of modern mercury accumulation in bottom sediments from the south-western Chukchi Sea**. Marine Pollution Bulletin, 2023, 189, 114768. https://doi.org/10.1016/j.marpolbul.2023.114768

Kim, D.V., Sattarova, V.V., Aksentov, K.I., Lopatnikov, E.A., Ivanov, M.V., Alatortsev, A.V., & Melgunov, M.S. **Mercury geochemistry of marine sediments from the eastern Laptev Sea: The spatial distribution, levels, and contamination assessment**. Marine Pollution Bulletin, 2023, 187, 114576. https://doi.org/10.1016/j.marpolbul.2023.114576

Floreani, F., Zappella, V., Faganeli, J., & Covelli, S. **Gaseous mercury evasion from bare and grass-covered soils contaminated by mining and ore roasting (Isonzo River alluvial plain, Northeastern Italy)**. Environmental Pollution, 2023, 318, 120921. https://doi.org/10.1016/j.envpol.2022.120921

de Pontes, G. C., de Carvalho Vicente, M., Kasper, D., Machado, W. T., & Wasserman, J. C. **Spatial distribution of total mercury and methylmercury in the sediment of a tropical coastal environment subjected to heavy urban inputs**. Chemosphere, 2023, 312, 137067. https://doi.org/10.1016/j.chemosphere.2022.137067

C. Du, Z. Li. **Contamination and health risks of heavy metals in the soil of a historical landfill in northern China**. Chemosphere, 2023, 313, 137349. https://doi.org/10.1016/j.chemosphere.2022.137349

2022

Sattarova, V.V., Aksentov, K.I., Ivanov, M.V., Alatortsev, A.V., Kim, D.V., & Obrezkova, M.S. **Distribution and assessment of trace metals in modern bottom sediments in the southwestern Chukchi Sea**. Marine Pollution Bulletin, 2022, 180, 113797. https://doi.org/10.1016/j.marpolbul.2022.113797

Teixeira, M., Cesar, R., Abessa, D., Siqueira, C., Lourenço, R., Vezzone, M., ... & Castilhos, Z. **Ecological risk assessment of metal and hydrocarbon pollution in sediments from an urban tropical estuary: Tijuca lagoon (Rio de Janeiro, Brazil)**. Environmental Science and Pollution Research, 2022, 1-17. https://doi.org/10.1007/s11356-022-22214-6

Man, X., Huang, H., Chen, F., Gu, Y., Liang, R., Wang, B., ... & Jiang, S. **Anthropogenic impacts on the temporal variation of heavy metals in Daya Bay (South China)**. Marine Pollution Bulletin, 2022, 185, 114209. https://doi.org/10.1016/j.marpolbul.2022.114209

Ivanov, M.V., Aksentov, K.I., & Astakhov, A.S. **Mercury concentrations in the surface bottom sediments and cores of the East Siberian and Laptev seas and the adjacent area of the Arctic Ocean**. Limnology and Freshwater Biology, 2022, 1352-1354. https://doi.org/10.31951/2658-3518-2022-A-3-1352

Malov, V., Subetto, D., Strakhovenko, V., Ovdina, E., & Belkina, N. **Distribution of Mercury in the Water-Suspended Matter-Bottom Sediments System of the Lake Onego Water Area**. Minerals, 2022, 12(11), 1410. https://doi.org/10.3390/min12111410

Feng, Z., Deng, L., Guo, Y., Guo, G., Wang, L., Zhou, G., ... & Liang, T. **The spatial analysis, risk assessment and source identification for mercury in a typical area with multiple pollution sources in southern China**. Environmental Geochemistry and Health, 2022, 1-13. https://doi.org/:10.1007/s10653-022-01436-0

Zhou, X., & Zhang, G. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Regions in a China's Typical Agricultural County: Dehui**. Research Square, 2022. https://doi.org/10.21203/rs.3.rs-1473819/v1

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A. et al. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2022, 1-15. https://doi.org/10.1007/s10653-022-01295-9

Coker, E.A., Nkuah, B.C., Amoanimaah, S.A. et al. **Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana**. Environ Geochem Health, 2022, 1-11. https://doi.org/10.1007/s10653-022-01441-3

Caballero-Gallardo, K., Palomares-Bolaños, J. & Olivero-Verbel, J. **Mercury Concentrations in Water, Sediments, Soil, and Fish Around Ancestral Afro-Descendant Territories Impacted by Gold Mining in the Cauca Department, Colombia**. Water Air Soil Pollut., 2022, 233, 393. https://doi.org/10.1007/s11270-022-05779-3

Cegolon, L., Mastrangelo, G., Covelli, S., Petranich, E., Pavoni, E., & Filon, F. L**. Occupational exposure to mercury from cinnabar enriched sand in workers of Grado Beach, Gulf of Trieste (North-eastern Italy, upper Adriatic Sea)**. Marine Pollution Bulletin, 2022, 184, 114057. https://doi.org/10.1016/j.marpolbul.2022.114057

Xiao, Y.; Zhang, G.; Guo, J.; Zhang, Z.;Wang, H.;Wang, Y.;Wang, Z.; Yuan, H.; Cui, D. **Pollution Characteristics and Risk Assessments of Mercury in Jiutai, a County Region Thriving on Coal Mining in Northeastern China**. Sustainability 2022, 14, 10366. https://doi.org/10.3390/su141610366

Shuvaeva, O. V., Gustaitis, M. A., Pokhorukova, N. I., Troitsky, D. Y., & Bekesha, I. A. **The study of mercury accumulation by plants depending on the chemical form of the element in the growing media**. Limnology and Freshwater Biology, 2022 (3), 1342-1345. https://doi.org/10.31951/2658-3518-2022-A-3-1342

E. Petranich, S. Predonzani, A. Acquavita, N. Mashyanov, S. Covelli. **Rapid thermoscanning technique for direct analysis of mercury species in contaminated sediments: From pure compounds to real sample application**. Applied Geochemistry, 2022, 105393. https://doi.org/10.1016/j.apgeochem.2022.105393

Ge, X., Chen, D., Zhang, G., Huang, T., Liu, M., & El-Shafeiy, M. **Marine redox evolution and organic accumulation in an intrashelf basin, NE Sichuan Basin during the Late Permian**. Marine and Petroleum Geology, 2022, 105633. https://doi.org/10.1016/j.marpetgeo.2022.105633

Sarpong, K., Acheampong, A., Darko, G., & Akoto, O. **Potentially toxic Metal Loads in Soils Supporting Medicinal Plants in the Ashanti Region of Ghana**. Chemistry Africa, 2022, 1-15. https://doi.org/10.1007/s42250-022-00341-4

Myagkaya, I. N., Gustaytis, M. A., Saryg-ool, B. Y., & Lazareva, E. V. **Mercury Partitioning and Behavior in Streams and Source Areas Affected by the Novo-Ursk Gold Sulfide Tailings (West Siberia, Russia)**. Mine Water and the Environment, 2022, 1-21. https://doi.org/10.1007/s10230-022-00859-6

Lijie Zhang, Michael Philben, Neslihan Taş, Alexander Johs, Ziming Yang, Stan D. Wullschleger, David E. Graham, Eric M. Pierce, Baohua Gu. **Unravelling biogeochemical drivers of methylmercury production in an Arctic fen soil and a bog soil**. Environmental Pollution, 2022, 299, 118878. https://doi.org/10.1016/j.envpol.2022.118878

Spearman, S.; Bartrem, C.; Sharshenova, A.A.; Salymbekova, K.S.; Isirailov, M.B.; Gaynazarov, S.A.; Gilmanov, R.; von Lindern, I.H.; von Braun, M.; Möller, G. **Comparison of X-ray Fluorescence (XRF)**

and Atomic Absorption Spectrometry (AAS) Results for an Environmental Assessment at a Mercury Site in Kyrgyzstan. Appl. Sci. 2022, 12, 1943. https://doi.org/10.3390/app12041943

Liu, J., Lei, Z., Kong, K., Abdelhafiz, M. A., Tian, S., Jiang, T., & Feng, X. **Uncovering the Geochemical Fractionation of Newly Deposited Hg in Paddy Soil Using A Stable Isotope Tracer**. SSRN, 2022. https://doi.org/10.2139/ssrn.4017538

Ygor O.S. Rodrigues, José G. Dórea, P.M.B. Landim, José Vicente Elias Bernardi, Lucas Cabrera Monteiro, João Pedro Rudrigues de Souza, Lilian de Castro Moraes Pinto, Iara Oliveira Fernandes, João Victor Villela de Souza, Antônia Roberto Sousa, Juruna de Paula Sousa, Bruno Leandro Oliveira Maciel, Francisco Marcos dos Santos Delvico, Jurandir Rodrigues de Souza. **Mercury spatiality and mobilization in roadside soils adjacent to a savannah ecological reserve**. Environmental Research, 2022, 205, 112513. https://doi.org/10.1016/j.envres.2021.112513

Punshon, T., Jackson, B.P., Donohue, A. et al. **Distribution and accumulation of mercury in pot-grown African rice cultivars (Oryza glaberrima Steud. and Oryza sativa L.) determined via LA-ICP-MS**. Environ Geochem Health, 2022. https://doi.org/10.1007/s10653-021-01169-6

Dipuo P. Kgabi & Abayneh A Ambushe. **Quantification and thermo-desorption studies of mercury in sediments from Mokolo River, Limpopo Province, South Africa**. International Journal of Environmental Analytical Chemistry, 2022. https://doi.org/10.1080/03067319.2021.2024524

Udodenko, Y.G., Robinson, C.T., Choijil, J. et al. **Mercury levels in sediment, fish and macroinvertebrates of the Boroo River, northern Mongolia, under the legacy of gold mining**. Ecotoxicology, 2022. https://doi.org/10.1007/s10646-021-02502-6

Xianming Li, Xun Wang, Wei Yuan, Zhiyun Lu, Dingyong Wang. **Increase of litterfall mercury input and sequestration during decomposition with a montane elevation in Southwest China**. Environmental Pollution, 2022, 292(B), 118449. https://doi.org/10.1016/j.envpol.2021.118449

Xiao-Tao Xu, Long-Yi Shao, Kenneth A. Eriksson, Bo Pang, Shuai Wang, Cheng-Xue Yang, Hai-Hai Hou. **Terrestrial records of the early Albian Ocean Anoxic Event: Evidence from the Fuxin lacustrine basin, NE China**. Geoscience Frontiers, 2022, 13(1), 101275. https://doi.org/10.1016/j.gsf.2021.101275

Silvia Fornasaro, Guia Morelli, Valentina Rimondi, Cesare Fagotti, Rossella Friani, Pierfranco Lattanzi, Pilario Costagliola. **Mercury distribution around the Siele Hg mine (Mt. Amiata district, Italy) twenty years after reclamation: Spatial and temporal variability in soil, stream sediments, and air**. J. Geochemical Exploration, 2022, 232, 106886. https://doi.org/10.1016/j.gexplo.2021.106886

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A., Vorkamp, K., Yevugah, L.L., & Darko, G. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2022, 1-15. https://doi.org/10.1007/s10653-022-01295-9

2021

Muri, G., Horvat, M., Kotnik, J. et al. **Recent changes in major and trace elements in sediments from a remote mountain lake (6th Triglav Lake) in the Julian Alps, NW Slovenia**. J Paleolimnol, 2021, 65, 69–83. Https://doi.org/10.1007/s10933-020-00149-7

Makshakov AS, Kravtsova RG. **Stream Sediments of the Pestrinsk Silver-Bearing System (Northeastern Russia)**. Minerals, 2021; 11(1),65. https://doi.org/10.3390/min11010065

EE Lyapina and AA Cherkashina. **Geochemical characteristics of soils in natural and disturbed landscapes of the Tunka basin**. Environmental transformation and sustainable development in Asian

region. Earth and Environmental Science, 2021, 629, 012072. https://doi.org/10.1088/1755-1315/629/1/012072

V. Pellinen, T. Cherkashina, M. Gustaytis. **Assessment of metal pollution and subsequent ecological risk in the coastal zone of the Olkhon Island, Lake Baikal, Russia**. Sci. Total Environment, 2021, 786, 147441. https://doi.org/10.1016/j.scitotenv.2021.147441

Zhengcheng Song, Chuan Wang, Li Ding, Min Chen, Yanxin Hu, Ping Li, Leiming Zhang, Xinbin Feng. **Soil mercury pollution caused by typical anthropogenic sources in China: Evidence from stable mercury isotope measurement and receptor model analysis**. J. Cleaner Production, 2021, 288, 125687. https://doi.org/10.1016/j.jclepro.2020.125687

Sanny Castro, Wanilson Luiz-Silva, Wilson Machado, Everton Valezio. **Mangrove sediments as long-term mercury sinks: Evidence from millennial to decadal time scales**. Marine Pollution Bulletin, 2021, 173(B), 113031. https://doi.org/10.1016/j.marpolbul.2021.113031

Alekseev, I., Abakumov, E. **Polycyclic Aromatic Hydrocarbons, Mercury and Arsenic Content in Soils of Larsemann Hills, Pravda Coast and Fulmar Island, Eastern Antarctica**. Bull Environ Contam Toxicol, 2021, 106, 278–288. https://doi.org/10.1007/s00128-020-03063-w

Opoku Gyamfi, Peter Borgen Sørensen, Godfred Darko, Eugene Ansah, Katrin Vorkamp, Jesper Leth Bak. **Contamination, exposure and risk assessment of mercury in the soils of an artisanal gold mining community in Ghana**. Chemosphere, 2021, 267. https://doi.org/10.1016/j.chemosphere.2020.128910

S. Covelli, E. Petranich, E. Pavoni, S. Signore. **Can Sediments Contaminated by Mining be a Source of Mercury in the Coastal Environment Due to Dredging? Evidence from Thermo-Desorption and Chemical Speciation**. Bull Environmental Contamination and Toxicology, 2021, https://doi.org/10.1007/s00128-021-03159-x

Cao, F., Meng, M., Shan, B., & Sun, R. **Source apportionment of mercury in surface soils near the Wuda coal fire area in Inner Mongolia, China**. Chemosphere, 2021, 263, 128348. https://doi.org/10.1016/j.chemosphere.2020.128348

Li, Z., Chen, X., Liu, W. et al. **Soil and ambient air mercury as an indicator of coal-fired power plant emissions: a case study in North China**. Environ Sci Pollut Res, 2021, 28, 33146–33157. https://doi.org/10.1007/s11356-021-12842-9

Zhaojun Wang, Lei Wang, Tingting Xiao, Tianle Yu, Xu Li, Zhanhui Tang, Gang Zhang. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Urban Regions in a Typical Chinese Industrial City: Changchun**. Polish J. Environ. Stud., 2021, 30(4), 3829-3841. https://doi.org/10.15244/pjoes/131051

Muri, G., Horvat, M., Kotnik, J. et al. **Recent changes in major and trace elements in sediments from a remote mountain lake (6th Triglav Lake) in the Julian Alps, NW Slovenia**. J. Paleolimnol., 2021, 65, 69–83. https://doi.org/10.1007/s10933-020-00149-7

Alexei S. Rozanov, Irina N. Myagkaya, Anton V. Korzhuk, Nikita I. Ershov, Ivan S. Kirichenko, Maria A. Gustaytis, Bagai-ool Yu. Saryg-ool, Victor I. Malov, Aleksandra A. Shipova, Elena V. Lazareva, Sergey E. Peltek. **Metagenomics data of microbial communities in bacterial mats and bottom sediments in water bodies within the Kurai Mercury Province (Gorny Altai, Russia)**. Data in Brief, 2021, 36. https://doi.org/10.1016/j.dib.2021.107099

González-Valoys, A.C., Jiménez Salgado, J.U., Rodríguez, R. et al. **An approach for evaluating the bioavailability and risk assessment of potentially toxic elements using edible and inedible plants—the Remance (Panama) mining area as a model**. Environ Geochem Health, 2021. https://doi.org/10.1007/s10653-021-01086-8

Jicheng Xia, Jianxu Wang, Leiming Zhang, Xun Wang, Wei Yuan, Christopher W.N. Anderson, Chaoyue Chen, Tao Peng, Xinbin Feng. **Significant mercury efflux from a Karst region in Southwest China - Results from mass balance studies in two catchments**. Science of The Total Environment, 2021, 769, https://doi.org/10.1016/j.scitotenv.2020.144892

Acquavita, A., Brandolin, D., Cattaruzza, C. et al. **Mercury distribution and speciation in historically contaminated soils of the Isonzo River Plain (NE Italy)**. J Soils Sediments, 2021. https://doi.org/10.1007/s11368-021-03038-2

Chunjie Wang, Zhangwei Wang, Yu Gao, Xiaoshan Zhang. **Planular-vertical distribution and pollution characteristics of cropland soil Hg and the estimated soil–air exchange fluxes of gaseous Hg over croplands in northern China**. Environmental Research, 2021, 195, 110810. https://doi.org/10.1016/j.envres.2021.110810

Duan Lei, Sun Xiaohui, Luo Yao, Du Baoyu, Wang Qiong, Liu Kaiyun, Zhang Jiawei, Wu Qingru, Wang Shuxiao. **Soil-atmosphere exchange of gaseous elemental mercury in three subtropical forests with different substrate Hg concentrations**. Atmospheric Environment, 2021, 244, 117869. https://doi.org/10.1016/j.atmosenv.2020.117869

WANG Shu-ping, SONG Yu-mei, LIU Shuang, GUO Peng-ran. **Research of the methylation and biological response of exogenous mercury in mariculture sediments.** China Environmental Science, 2021, 41(6), 2871-2880. https://doi.org/10.19674/j.cnki.issn1000-6923.2021.0290

QIN Xu-zhi, LUO Zhi-xiang, JI Wen-bing, LIANG Peng, SU Rong, LI Fang, LIU Xu, YIN Juan. **Pollution and ecological risk assessment of heavy metals in surrounding soil by nonferrous metal smelting with high geological background in Northwest Guangxi.** Chinese Journal of Ecology, 2021, 40(8), 2324－2333. https://doi.org/1013292 /j1000－48902021.08.012

CUI Jing, SONG Yanyan, XU Xiaomin, WANG Xiaoning, Bian Zhiming. **Study on the Solid Sampling-Cold Atomic Absorption Method of Determining Mercury in Municipal Sludge.** China Resources Comprehensive Utilization, 2021, 39(8). https://doi.org/10.3969/j.issn.1008-9500.2021.08.001

Guney, M.; Akimzhanova, Z.; Kumisbek, A.; Kismelyeva, S.; Guney, A.; Karaca, F.; Inglezakis, V. **Assessment of Distribution of Potentially Toxic Elements in Different Environmental Media Impacted by a Former Chlor-Alkali Plant**. Sustainability, 2021, 13, 13829. https://doi.org/10.3390/su132413829

Janeiro-Tato, I., Lopez-Anton, M.A., Baragaño, D. et al. **Immobilization of mercury in contaminated soils through the use of new carbon foam amendments**. Environ Sci Eur, 2021, 33, 127. https://doi.org/10.1186/s12302-021-00569-w

Patova, E.N., Kondratenok, B.M., Sivkov, M.D., & Kostrova, S.N. **Water quality of the Vychegda River under the conditions of the receipt of treated wastewater from the pulp and paper industry**. Contemporary Problems of Ecology, 2021, 14(6), 588-605. https://doi.org/10.1134/S1995425521060081

2020

Runsheng Yin, Xin Pan, Changzhou Deng, Guangyi Sun, Sae Yun Kwon,Ryan F. Lepak, James P. Hurley. **Consistent trace element distribution and mercury isotopic signature between a shallow buried volcanic-hosted epithermal gold deposit and its weathered horizon**. Environmental Pollution. 2020, 259, 113954. https://doi.org/10.1016/j.envpol.2020.113954

Thelma Akanchise, Sandra Boakye, Lawrence Sheringham Borquaye, Matt Dodd, Godfred Darko. **Distribution of heavy metals in soils from abandoned dump sites in Kumasi, Ghana**. Scientific African 10 (2020) e00614. https://doi.org/10.1016/j.sciaf.2020.e00614

Liyuan Yang, Wei Zhang, Mingyi Ren, Feifei Cao, Fengfeng Chen, Yutao Zhang, Lihai Shang. **Mercury distribution in a typical shallow lake in northern China and its reemission from sediment**. Ecotoxicology and Environmental Safety, 192 (2020) 110316. https://doi.org/10.1016/j.ecoenv.2020.110316

Kirill I. Aksentov, Valentina V. Sattarova. **Mercury geochemistry of deep-sea sediment cores from the Kuril area, northwest Pacific**. Progress in Oceanography 180 (2020) 102235. https://doi.org/10.1016/j.pocean.2019.102235

Feng, Z., Xiao, T., Zhang, G., Zhang, L., Cui, Y., & Jiang, Y. **Mercury spatial distribution characteristics and its exposure of the endangered Jankowski's bunting**. Ecological Research, 2020, 1-12. https://doi.org/10.1111/1440-1703.12117

Zhidong Xu, Qinhui Lu, Xiaohang Xu, Xinbin Feng, Longchao Liang, Lin Liu, Chan Li, Zhuo Chen, Guangle Qiu. **Multi-pathway mercury health risk assessment, categorization and prioritization in an abandoned mercury mining area: A pilot study for implementation of the Minamata Convention**. Chemosphere, 2020, 260, 127582, https://doi.org/10.1016/j.chemosphere.2020.127582

Cao, Z., Wang, L., Yang, L., Yu, J., Lv, J., Meng, M., & Li, G. **Heavy metal pollution and the risk from tidal flat reclamation in coastal areas of Jiangsu, China**. Marine Pollution Bulletin, 2020, 158, 111427. https://doi.org/10.1016/j.marpolbul.2020.111427

2019

V. Rimondi, P. Costagliola, P. Lattanzi, G. Morelli, G. Cara, C. Cencetti, C. Fagotti, A. Fredduzzi, G. Marchetti, A. Sconocchia, S. Torricelli. **A 200 km-long mercury contamination of the Paglia and Tiber floodplain: Monitoring results and implications for environmental management**. Environmental Pollution 255 (2019) 113191. https://doi.org/10.1016/j.envpol.2019.113191

Jiřina Sysalová, Ondřej Zvěřina, Rostislav Červenka & Josef Komárek. **Occurrence and transformation of mercury in formerly contaminated soils due to operation of amalgamation techniques and assessment of consequences**. Human and Ecological Risk Assessment: An International Journal, 2019. https://doi.org/10.1080/10807039.2019.1660848

Fadina, O.A., Venancio, I.M., Belem, A., Silveira, C.S., Bertagnolli, D. de C., Silva-Filho, E.V., Albuquerque, A.L.S. **Paleoclimatic controls on mercury deposition in northeast Brazil since the Last Interglacia**l. Quaternary Science Reviews, 2019, 221, 105869. https://doi.org/10.1016/j.quascirev.2019.105869

Wang, C., Song, Z., Li, Z., Zhu, W., Li, P., & Feng, X. **Mercury speciation and mobility in salt slurry and soils from an abandoned chlor-alkali plant, Southwest China**. Science of the Total Environment, 2019, 652, 900–906. https://doi.org/10.1016/j.scitotenv.2018.10.296

Cheng, Z., Tang, Y., Li, E., Wu, Q., Wang, L., Liu, K., et al. **Mercury accumulation in soil from atmospheric deposition in temperate steppe of Inner Mongolia, China**. Environmental Pollution, 2019, 258, 113692. https://doi.org/10.1016/j.envpol.2019.113692

Gallego, J.L.R., López-Antón, M.A., de la Rosa, D.M. et al. **Assessment of mercury pollution sources in beach sand and coastal soil by speciation analysis**. Environ Sci Eur 31, 79 (2019). https://doi.org/10.1186/s12302-019-0264-3

Dickson, J.O., Mayes, M.A., Brooks, S.C. et al. **Source relationships between streambank soils and streambed sediments in a mercury-contaminated stream**. J Soils Sediments, 2019, 19, 2007–2019. https://doi.org/10.1007/s11368-018-2183-0

Jianxu Wang, Ying Xing, Yuanyan Xie, Yong Meng, Jicheng Xia, Xinbin Feng. **The use of calcium carbonate-enriched clay minerals and diammonium phosphate as novel immobilization agents for**

mercury remediation: Spectral investigations and field applications. Science of The Total Environment, 2019, 646, 1615-1623. https://doi.org/10.1016/j.scitotenv.2018.07.225

Naharro, R., Esbrí, J.M., Amorós, J. Á., García-Navarro, F.J., & Higueras, P. **Assessment of mercury uptake routes at the soil-plant-atmosphere interface**. Geochemistry: Exploration, Environment, Analysis, 2019, 19(2), 146-154

National Elemental Mercury Response Guidebook. USEPA, March 2019. https://www.acac.org/forms/otherpdfs/epamercury2019.pdf

2018

Zhengcheng Song, Ping Lib, Li Ding, Zhonggen Li, Wei Zhu, Tianrong He, Xinbin Feng. **Environmental mercury pollution by an abandoned chlor-alkali plant in Southwest China.** Journal of Geochemical Exploration. 2018, 194, 81–87. https://doi.org/10.1016/j.gexplo.2018.07.017

Leobardo Rocha-Román, Jesús Olivero-Verbel, Karina Rocío Caballero-Gallardo. **Impacto de la minería del oro asociado con la contaminación por mercurio en suelo superficial de San Martín de Loba, Sur de Bolívar (Colombia).** Rev. Int. Contam. Ambie. 2018. 34 (1) 93-102. https://doi.org/10.20937/RICA.2018.34.01.08

Yuber Palacios-Torres, Karina Caballero-Gallardo, Jesus Olivero-Verbel. **Mercury pollution by gold mining in a global biodiversity hotspot, the Choco biogeographic region, Colombia**. Chemosphere, 2018, 193, 2018, 421-430. https://doi.org/10.1016/j.chemosphere.2017.10.160

Yury G. Udodenko, Viktor T. Komov, Viktor V. Zakonnov. **Total mercury in surficial bottom sediments of Volga River's reservoirs in Central Russia**. Environmental Earth Sciences. 2018, 77:692. https://doi.org/10.1007/s12665-018-7876-6

2017

Xiaolong Sun, Xueyun Si, Yang Xiang, Dongying Liu. **Soil mercury spatial variations in the fault zone and corresponding influence factors**. Terr. Atmos. Ocean. Sci., 2017, 28(3), 283-294. https://doi.org/10.3319/TAO.2016.09.29.02

M. Rumayor, J.R. Gallego, E. Rodríguez-Valdés, M. Díaz-Somoano. **An assessment of the environmental fate of mercury species in highlypolluted brownfields by means of thermal desorption**. Journal of Hazardous Materials, 2017, 325, 1–7. https://doi.org/10.1016/j.jhazmat.2016.11.068

Koukina S. E., Lobus N. V., Peresypkin V. I., Dara O. M., Smurov A. V. **Abundance, distribution and bioavailability of major and trace elements in surface sediments from the Cai River estuary and Nha Trang Bay (South China Sea, Vietnam)**. Estuarine, Coastal and Shelf Science. 2017. 198(B), 450–460. https://doi.org/10.1016/j.ecss.2016.03.005

Wang J., Xia J., Feng X. **Screening of chelating ligands to enhance mercury accumulation from historically mercury-contaminated soils for phytoextraction**. J. Environ. Management. 2017, 186(2), 233–239. https://doi.org/10.1016/j.jenvman.2016.05.031

Wang S. J., Chen Q., Li Y., Zhuo Y. Q., Xu L. Z. **Research on saline-alkali soil amelioration with FGD gypsum**. Resources, Conservation and Recycling. 2017, 121, 82–92. https://doi.org/10.1016/j.resconrec.2016.04.005

Wang Z., Guo X., Zhang K., Lu X. **Environmental changes in Jiaozhou Bay of northern China during the past 90 years using metals and biogenic elements in sediments**. J. Environ. Sciences, 2017, 53, 301–312. https://doi.org/10.1016/j.jes.2016.06.002

Chen Q., Wang S., Li Y., Zhang N., Zhao B., Zhuo Y., Chen C. **Influence of flue gas desulfurization gypsum amendments on heavy metal distribution in reclaimed sodic soils**. Environmental Engineering Science, 2015, 32(6), 470–478. https://doi.org/10.1089/ees.2014.0129

S. Broks, V. Eller, J. Dickson, et al. **Mercury Content of Sediments in East Fork Poplar Creek: Current Assessment and Past Trends**. Oak Ridge National Laboratory. ORNL/TM-2016/578, 2017. https://info.ornl.gov/sites/publications/files/Pub70543.pdf

Gordeeva, O.N., Belogolova, G.A. & Pastukhov, M.V. **Mercury speciation and mobility in soils of industrial areas in the Baikal region, Southern Siberia, Russia**. Environ Earth Sci, 2017, 76, 558. https://doi.org/10.1007/s12665-017-6882-4

X Zhou, XB Feng, W Dai, P Li, CY Ju, ZD Bao, YL Han. **NPP-VIIRS DNB-based reallocating subpopulations to mercury in Urumqi city cluster, Central Asia**. IOP Conf. Series: Earth and Environmental Science 57, 2017, 012021 https://doi.org/10.1088/1755-1315/57/1/012021

Sysalová, J., Kučera, J., Drtinová, B., Červenka, R., Zvěřina, O., Komárek, J., & Kameník, J. **Mercury species in formerly contaminated soils and released soil gases**. Science of the Total Environment, 2017, 584, 1032-1039. https://doi.org/10.1016/j.scitotenv.2017.01.157

2016

Száková, J., Burešová, A., Praus, L. et al. **The response of mercury (Hg) transformation in soil to sulfur compounds and sulfur-rich biowaste application**. Environ Earth Sci, 2016, 75, 584. https://doi.org/10.1007/s12665-016-5387-x

C. Feng; Z. Pedrero; P. Li; B. Du; X. Feng; M. Monperrus; E. Tessier; S. Berail; D. Amouroux. **Investigation of Hg uptake and transport between paddy soil and rice seeds combining Hg isotopic composition and speciation**. Elementa: Science of the Anthropocene, 2016, 4: 000087. https://doi.org/10.12952/journal.elementa.000087

Andressa Cristhy Buch, Júlia Carina Niemeyer, Maria Elizabeth Fernandes Correia, Emmanoel Vieira Silva-Filho. **Ecotoxicity of mercury to Folsomia candida and Proisotoma minuta (Collembola: Isotomidae) in tropical soils: Baseline for ecological risk assessment**. Ecotoxicology and Environmental Safety, 2016, 127, 22-29. https://doi.org/10.1016/j.ecoenv.2016.01.009

Pogrzeba, M., Ciszek, D., Galimska-Stypa, R. et al. **Ecological strategy for soil contaminated with mercury**. Plant Soil, 2016, 409, 371–387. https://doi.org/10.1007/s11104-016-2936-8

Száková J, Havlíčková J, Šípková A, Gabriel J, Švec K, Baldrian P, Sysalová J, Coufalík P, Červenka R, Zvěřina O, Komárek J, Tlustoš P. **Effects of the soil microbial community on mobile proportions and speciation of mercury (Hg) in contaminated soil**. J Environ Sci Health, 2016; 51(4), 364-70. https://doi.org/ 10.1080/10934529.2015.1109413

Andressa Cristhy Buch, Júlia Carina Niemeyer, Maria Elizabeth Fernandes Correia, Emmanoel Vieira Silva-Filho. **Ecotoxicity of mercury to Folsomia candida and Proisotoma minuta (Collembola: Isotomidae) in tropical soils: Baseline for ecological risk assessment**. Ecotoxicology and Environmental Safety, 2016, 127, 22-29. https://doi.org/10.1016/j.ecoenv.2016.01.009

Xu, Jianling; Wang, Hanxi; Liu, Yuanyuan; Ma, Mengchao; Zhang, Tian; Zheng, Xiaoxue; Zong, Meihan. **Ecological risk assessment of heavy metals in soils surrounding oil waste disposal areas**. Environmental Monitoring and Assessment, 2016, 188(2). https://doi.org/10.1007/s10661-016-5093-x

2015

Mekonnen K. N., Ambushe A. A., Chandravanshi B. S., Redi-Abshiro M., McCrindle R. I. **Occurrence, distribution, and ecological risk assessment of potentially toxic elements in surface sediments of**

Lake Awassa and Lake Ziway, Ethiopia. Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances and Environmental Engineering, 2015, 50(1), 90–99. http://doi.org/10.1080/10934529.2015.964634

Miller C.L., Watson D.B., Lester B., Howe J.Y., Phillips D.H., He F., Liang L., Pierce E.M. **Formation of Soluble Mercury Oxide Coatings: Transformation of Elemental Mercury in Soils**. Environmental Science & Technology, 2015, 49(20), 12105–12111. https://doi.org/10.1021/acs.est.5b00263

Wang Z. H., Feng J., Nie X. P. **Recent environmental changes reflected by metals and biogenic elements in sediments from the Guishan Island, the Pearl River Estuary, China.** Estuarine, Coastal and Shelf Science, 2015, 164, 493–505. https://doi.org/10.1016/j.ecss.2015.08.002

2014

Laperche V, Hellal J, Maury-Brachet R, et al. **Regional distribution of mercury in sediments of the main rivers of French Guiana (Amazonian basin)**. Springerplus. 2014; 3:322. https://doi.org/10.1186/2193-1801-3-322

Amorós J. A., Esbrí J. M., García-Navarro F. J., Pérez-de-los-Reyes C., Bravo S., Villaseñor B., Higueras P. **Variations in mercury and other trace elements contents in soil and in vine leaves from the Almadén Hg-mining district**. J. Soils and Sediments, 2014, 14(4), 773–777. https://doi.org/10.1007/s11368-013-0783-2

Cesar, R., Natal-da-Luz, T., Sousa, J.P., Colonese, J., Bidone, E., Castilhos, Z., Polivanov, H. **Disposal of dredged sediments in tropical soils: ecotoxicological effects on earthworms**. Environmental Monitoring and Assessment, 2014, 186(3), 1487–1497. https://doi.org/10.1007/s10661-013-3468-9

Esbrí, J. M., López-Berdonces, M.A., Fernández-Calderón, S., Higueras, P., & Díez, S. **Atmospheric mercury pollution around a chlor-alkali plant in Flix (NE Spain): an integrated analysis**. Environmental Science and Pollution Research, 2014, 22(7), 4842–4850. https://doi.org/10.1007/s11356-014-3305-x

Higueras, P., Lorenzo, S., Esbrí, J. M., García-Noguero, E. M., & Reyes-Bozo, L. **Soil pollution related to mercury-mining activities in the proximity of Usagre (Badajoz, SW Spain)**. International Journal of Mining, Reclamation and Environment, 28(6), 377–388. https://doi.org/10.1080/17480930.2014.967918

Mekonnen K.N., Ambushe A.A., Chandravanshi B.S., Redi-Abshiro M., McCrindle R.I. **Assessment of potentially toxic elements in Swiss chard and sediments of Akaki River, Ethiopia**. Toxicological & Environmental Chemistry, 2014, 96(10), 1501–1515. https://doi.org/10.1080/02772248.2015.1025788

Vasilevich R.S., Beznosikov V.A., Lodygin E.D., Kondratenok B.M. **Complexation of mercury (II) ions with humic acids in tundra soils**. Eurasian Soil Science, 2014, 47(3), 162–172. https://doi.org/10.1134/S1064229314030089

O. Phipps, J. Barrett, P. Hesketh, R. Brown. **Risk-based management of mercury-impacted sites**. Network for Industrially Contaminated Land in Europe, 2014. https://nicole.org/uploadedfiles/WGM%202015-06-10%20NICOLE%20Risk%20based%20Management%20of%20Mercury%20Impacted%20Sites.pdf

2013

Carmona M., Llanos W., Higueras P., Kocman D. **Mercury emissions in equilibrium: a novel approach for the quantification of mercury emissions from contaminated soils**. Analytical Methods., 2013, 5(11), 2793–2801. https://doi.org/10.1039/c3ay25700b

Fantozzi L., Ferrara R., Dini, F., Tamburello L., Pirrone N., Sprovieri F. **Study on the reduction of atmospheric mercury emissions from mine waste enriched soils through native grass cover in the Mt. Amiata region of Italy**. Environmental Research, 2013, 125, 69–74. https://doi.org/10.1016/j.envres.2013.02.004

Lacerda L. D., Campos R. C., Santelli R. E. **Metals in water, sediments, and biota of an offshore oil exploration area in the Potiguar Basin, Northeastern Brazil.** Environ Monit Assess, 2013, 185, 4427–4447. https://doi.org/10.1007/s10661-012-2881-9

Miller, C. L., Watson, D. B., Lester, B. P., Lowe, K. A., Pierce, E. M., & Liang, L. **Characterization of soils from an industrial complex contaminated with elemental mercury**. Environmental Research, 2013, 125, 20–29. https://doi.org/10.1016/j.envres.2013.03.013

Niu Z., Zhang X., Wang S., Ci Z., Kong X., Wang Z. **The linear accumulation of atmospheric mercury by vegetable and grass leaves: potential biomonitors for atmospheric mercury pollution**. Environmental Science and Pollution Research, 2013, V. 20, № 9, 6337–6343. https://doi.org/10.1007/s11356-013-1691-0

Park, C. H., Eom, Y., Lee, L. J.-E., & Lee, T. G. **Simple and accessible analytical methods for the determination of mercury in soil and coal samples**. Chemosphere, 2013, 93(1), 9–13. https://doi.org/10.1016/j.chemosphere.2013.04.044

Rognerud S., Dauvalter V. A., Fjeld E., Skjelkvåle B. L., Christensen G., Kashulin N. **Spatial trends of trace-element contamination in recently deposited lake sediment around the Ni–Cu smelter at Nikel, Kola Peninsula, Russian Arctic**. Ambio, 2013, 42, 6, 724–736. https://doi.org/10.1007/s13280-013-0384-8

Wang J., Feng X., Anderson C. W. N. **Thiosulphate assisted phytoextraction of mercury contaminated soils at the Wanshan Mercury Mining District, Southwest China.** Journal of Degraded and Mining Lands Management, 2013, 1, № 1, 1–8. http://www.jdmlm.ub.ac.id/index.php/jdmlm/article/view/6

Yin R., Feng X., Wang J., Li P., Liu J., Zhang Y., Chen J., Zheng L., Hu T. **Mercury speciation and mercury isotope fractionation during ore roasting process and their implication to source identification of downstream sediment in the Wanshan mercury mining area, SW China**. Chemical Geology, 2013, 336, 72–79. https://doi.org/10.1016/j.chemgeo.2012.04.030

Wang Z.H., Feng J., Jiang T., Gu Y.G. **Assessment of metal contamination in surface sediments from Zhelin Bay, the South China Sea**. Marine Pollution Bulletin, 2013, 76, № 1, 383–388. https://doi.org/10.1016/j.marpolbul.2013.07.050

Zhou J., Feng X., Liu, H., Zhang H., Fu X., Bao Z., Wang X., Zhang Y. **Examination of total mercury inputs by precipitation and litterfall in a remote upland forest of Southwestern China**. Atmospheric Environment, 2013, 81, 364–372. https://doi.org/10.1016/j.atmosenv.2013.09.010

Zhu W., Li Z., Chai X., Hao Y., Lin C.J., Sommar J., Feng X. **Emission characteristics and air–surface exchange of gaseous mercury at the largest active landfill in Asia**. Atmospheric Environment, 2013, 79, 188–197. https://doi.org/10.1016/j.atmosenv.2013.05.083

Niu, Z., Zhang, X., Wang, S., Zeng, M., Wang, Z., Zhang, Y., & Ci, Z. **Field controlled experiments on the physiological responses of maize (Zea mays L.) leaves to low-level air and soil mercury exposures**. Environ. Science and Pollution Research, 2014, 21(2), 1541–1547. https://doi.org/10.1007/s11356-013-2047-5

Zhang Gang; Wang Ning; Ai JianChao; Wang ZhanHua; Wang Yi; Xu DeXuan. **Characteristics of mercury flux between soil and air under the meteorological condition of durative precipitation**. China Environmental Science, 2013, 33(3), 409-415.

2012

John G. Kelly, Fengxiang X. Han,Yi Su, Yunjun Xia, Valerie Philips, Zhiqi Shi, David L. Monts, Sergio T. Pichardo, Kang Xia. **Rapid Determination of Mercury in Contaminated Soil and Plant Samples Using Portable Mercury Direct Analyzer without Sample Preparation, a Comparative Study**. Water Air Soil Pollut (2012) 223:2361–2371. https://doi.org/ 10.1007/s11270-011-1030-3

Cesar R., Silva M., Colonese J., Bidone E., Egler S., Castilhos Z., Polivanov H. **Influence of the properties of tropical soils in the toxicity and bioavailability of heavy metals in sewage sludge-amended lands**. Environ. Earth Sciences, 2012, 66, № 8, 2281–2292. https://doi.org/10.1007/s12665-011-1449-2

Cogua P., Campos-Campos N. H., Duque G. **Concentración de mercurio total y metilmercurio en sedimento y seston de la Bahía de Cartagena, Caribe Colombiano (Total mercury and methylmercury concentration in sediment and seston of Cartagena Bay, Colombian Caribbean)**. Boletín de Investigaciones Marinas y Costeras – INVEMAR, 2012, 41, № 2, 267–285. (In Spanish). www.scielo.org.co/scielo.php?script=sci_arttext&pid=S0122-97612012000200002&lng=en

Gu Y.-G., Wang Z.-H., Lu S.-H., Jiang S.-J., Mu D.-H., Shu Y.-H. **Multivariate statistical and GIS-based approach to identify source of anthropogenic impacts on metallic elements in sediments from the mid Guangdong coasts, China.** Environ. Pollution, 2012, 163, 248–255. https://doi.org/10.1016/j.envpol.2011.12.041

Josefsson S., Schaanning M., Samuelsson G. S., Gunnarsson J. S., Olofsson I., Eek E., Wiberg K. **Capping efficiency of various carbonaceous and mineral materials for in situ remediation of polychlorinated dibenzo-p-dioxin and dibenzofuran contaminated marine sediments: sediment-to-water fluxes and bioaccumulation in Boxcosm tests**. Environmental Science & Technology, 2012, 46, № 6, 3343−3351. https://doi.org/10.1021/es203528v

Kelly J. G., Han F. X., Su Y., Xia Y., Philips V., Shi Z., Monts D. L., Pichardo S. T., Xia K. **Rapid determination of mercury in contaminated soil and plant samples using portable mercury direct analyzer without sample preparation, a comparative study**. Water, Air & Soil Pollution, 2012, 223, № 5, 2361–2371. https://doi.org/10.1007/s11270-011-1030-3

Mekonnen K. N., Ambushe A. A., Chandravanshi B. S., Abshiro M. R., McCrindle R. I., Panichev N. **Distribution of mercury in the sediments of some freshwater bodies in Ethiopia**. Toxicological & Environmental Chemistry, 2012, 94, № 9, 1678–1687. https://doi.org/10.1080/02772248.2012.728602

Zhao L., Yang F., Yan X., Huo Z., Zhang G. **Heavy metal concentrations in surface sediments and Manila clams (Ruditapes philippinarum) from the Dalian coast, China after the Dalian port oil spil**l. Biological Trace Element Research, 2012, 149, № 2, 241–247. https://doi.org/10.1007/s12011-012-9412-y

2011

A. Yasutake, J.P. Cheng, M. Kiyono, S. Uraguchi, X. Liu, K. Miura, Y. Yasuda, and N. Mashyanov. **Rapid Monitoring of Mercury in Air from an Organic Chemical Factory in China Using a Portable Mercury Analyzer**. TheScientificWorldJOURNAL, vol. 11, pp. 1630–1640, 2011. https://doi.org/10.1100/2011/493207

Sh. Tserenpil, Liu Cong-Qiang. **Study of antimony (III) binding to soil humic acid from an antimony smelting site.** Microchemical Journal 98 (2011) 15–20. https://doi.org/10.1016/j.microc.2010.10.003

Janaina Correa Fiorentino & Jacinta Enzweiler, Romulo S. Angélica. **Geochemistry of Mercury Along a Soil Profile Compared to Other Elements and to the Parental Rock: Evidence of External Input.** Water Air Soil Pollut (2011) 221:63–75. https://doi.org/10.1007/s11270-011-0769-x

Ricardo Cesar, Silvia Egler, Helena Polivanov, Zuleica Castilhos, Ana Paula Rodrigues. **Mercury, copper and zinc contamination in soils and fluvial sediments from an abandoned gold mining area in southern Minas Gerais State, Brazil**. Environ Earth Sci (2011) 64:211–222. https://doi.org/10.1007/s12665-010-0840-8

A. Martínez-Coronado, R. Oyarzun, J.M. Esbrí, W. Llanos, P. Higueras. **Sampling high to extremely high Hg concentrations at the Cerco de Almadenejos, Almadén mining district (Spain): The old metallurgical precinct (1794 to 1861 AD) and surrounding areas**. J. Geochem. Explor. 109 (2011) 70–77. https://doi.org/10.1016/j.gexplo.2010.04.007

Janaina Correa Fiorentino, Jacinta Enzweiler, Romulo S. Angélica. **Geochemistry of Mercury Along a Soil Profile Compared to Other Elements and to the Parental Rock: Evidence of External Input**. Water Air Soil Pollut., 201, 221, 63–75. https://doi.org/10.1007/s11270-011-0769-x

Sh Tserenpil, Liu Cong-Qiang. **Study of antimony (III) binding to soil humic acid from an antimony smelting site**. Microchemical Journal, 2011, 98, 15–20. https://doi.org/10.1016/j.microc.2010.10.003

Willians Llanos, David Kocman, Pablo Higueras and Milena Horvat. **Mercury emission and dispersion models from soils contaminated by cinnabar mining and metallurgy**. J. Environ. Monit., 2011, 13, 3460. https://doi.org/10.1039/c1em10694e

John G. Kelly, Fengxiang X. Han, Yi Su, Yunjun Xia, Valerie Philips, Zhiqi Shi, David L. Monts, Sergio T. Pichardo, Kang Xia. **Rapid Determination of Mercury in Contaminated Soil and Plant Samples Using Portable Mercury Direct Analyzer without Sample Preparation, a Comparative Study**. Water Air Soil Pollut (2012) 223:2361–2371. https://doi.org/10.1007/s11270-011-1030-3

Sarah E. Rothenberg, Xinbin Feng, Bin Dong, Lihai Shang, Runsheng Yin, Xiaobo Yuan. **Characterization of mercury species in brown and white rice (Oryza sativa L.) grown in water-saving paddies.** Environmental Pollution 159 (2011) 1283-1289. https://doi.org/10.1016/j.envpol.2011.01.027

Jinling Liu, Xinbin Feng, Runsheng Yin, Wei Zhu, Zhonggen Li. **Mercury distributions and mercury isotope signatures in sediments of Dongjiang, the Pearl River Delta, China**. Chemical Geology 287 (2011) 81–89. https://doi.org/10.1016/j.chemgeo.2011.06.001

Shi W F, Feng X B, Zhang G, et al. **High-precision measurement of mercury isotope ratios of atmospheric deposition over the past 150 years recorded in a peat core taken from Hongyuan, Sichuan Province, China**. Chinese Sci Bull, 2011, 56: 877−882. https://doi.org/10.1007/s11434-011-4396-0

Deng C., Zhang C., Li L., Li Z., Li N. **Mercury contamination and its potential health effects in a lead–zinc mining area in the karst region of Guangxi, China**. Applied Geochemistry, 2011, 26, 2, 154–159. https://doi.org/10.1016/j.apgeochem.2010.11.013

Wang J., Feng X., Anderson C. W. N., Zhu W., Yin R., Wang H. **Mercury distribution in the soil–plant–air system at the Wanshan mercury mining district in Guizhou, Southwest China**. Environmental Toxicology and Chemistry, 2011, 30, № 12, 2725–2731. https://doi.org/10.1002/etc.681

Gabriel M. C., Williamson D. G., Brooks S. **Potential impact of rainfall on the air-surface exchange of total gaseous mercury from two common urban ground surfaces**. Atmospheric Environment, 2011, 45, 9, 1766–1774. https://doi.org/10.1016/j.atmosenv.2010.11.035

Niu Z., Zhang X., Wang Z., Ci Z. **Field controlled experiments of mercury accumulation in crops from air and soil**. Environmental Pollution, 2011, 159, 10, 2684–2689. https://doi.org/10.1016/j.envpol.2011.05.029

Savonina E.Yu., Fedotov P.S., Laperdina T.G. **Dynamic fractionation of mercury species in soils and bottom deposits using rotating coiled columns**. Journal of Analytical Chemistry, 2011, 66. – № 2, 119–124. https://doi.org/10.1134/S1061934811020146

Tserenpil S., Liu C.-Q. **Study of antimony (III) binding to soil humic acid from an antimony smelting site**. Microchemical Journal, 2011, 98, № 1, 15–20. https://doi.org/10.1016/j.microc.2010.10.003

2010

Kocman, D., Horvat, M. **A laboratory based experimental study of mercury emission from contaminated soils in the River Idrijca catchment**. Atmos. Chem. Phys., 2010, 10, 1417–1426. https://doi.org/10.5194/acp-10-1417-2010.

Nowak B., Fulara I. **Concentration of selected priority substances in Klodnica River catchment**. Ecological Chemistry and Engineering A., 2010, 17, № 11, 1435–1450. http://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-article-BPG8-0060-0005

2009

Oyarzun R., Cubas P., Higueras P., Lillo J., Llanos W. **Environmental assessment of the arsenic-rich, Rodalquilar gold–(copper–lead–zinc) mining district, SE Spain: data from soils and vegetation**. Environmental Geology, 2009, 58, № 4, 761–777. https://doi.org/10.1007/s00254-008-1550-3

Wang Z., Zhang X., Xiao J., Zhijia C., Yu P. **Mercury fluxes and pools in three subtropical forested catchments, Southwest China**. Environmental Pollution, 2009, 157, № 3, 801–808. https://doi.org/10.1016/j.envpol.2008.11.018

2008

Gabriel M. C., Williamson D. **Some insight into the influence of urban ground surface properties on the air-surface exchange of total gaseous mercury**. Applied Geochemistry, 2008, 23, № 4, 794–806. https://doi.org/10.1016/j.apgeochem.2007.12.028

Polyakov D. M., Aksentov K. I., Ivanov M. V. **Mercury in the bottom sediments of the marginal filter of the Razdol'naya River, Amur Bay**. Geochemistry International, 2008, 46, № 6, 614–621. https://doi.org/10.1134/S0016702908060074

2007

Rodriguez, L., Rincon, J., Asencio, I., and Castellanos, L. R. **Capability of selected crop plants for shoot mercury accumulation from polluted soils: Phytoremediation perspectives**. Int. J. Phytoremediat., 9, 1–13, 2007. https://doi.org/10.1080/15226510601139359

Astakhov A. S., Wallmann K., Ivanov M. V., Kolesov G. M., Sattarova V. V. **Distribution and accumulation rate of Hg in the upper quaternary sediments of the Deryugin Basin, Sea of Okhotsk**. Geochemistry International, 2007, 45, № 1, 47–61. https://doi.org/10.1134/S0016702907010041

Parsons M. P., Long D. T., Yohn S. S., Giesy J. P. **Spatial and temporal trends of mercury loadings to Michigan Inland Lakes**. Environmental Science & Technology, 2007, 41, № 16, 5634–5640. https://doi.org/10.1021/es0701356

Yang Y., Zhang C., Shi X., Lin T., Wang D. **Effect of organic matter and pH on mercury release from soils**. J. Environmental Sciences, 2007, 19, № 11, 1349–1354. https://doi.org/10.1016/S1001-0742(07)60220-4

2006

Molina J. A., Oyarzun R., Esbre J. M., Higueras P. **Mercury accumulation in soils and plants in the Almaden mining district, Spain: one of the most contaminated sites on Earth.** Environmental Geochemistry and Health, 2006, 28, № 5, 487–498. https://doi.org/10.1007/s10653-006-9058-9

Wang D., He L., Shi X., Wei S., Feng X. **Release flux of mercury from different environmental surfaces in Chongqing, China**. Chemosphere, 2006, 64, № 11, 1845–1854. https://doi.org/10.1016/j.chemosphere.2006.01.054

2004

EPA Innovative Technology Verification Report. Field Measurement Technology for Mercury in Soil and Sediment. **Field Measurement Technology for Mercury in Soil and Sediment Ohio Lumex's RA-915+/RP-91C Mercury Analyzer**. EPA/600/R-03/147, May 2004.

N. Mashyanov, S. Pogarev, V. Ryzhov, A. Matsuyama, H. Akagi. **Mercury thermo-speciation in contaminated soils and sediments**. RMZ – Materials and Geoenvironment. 2004. V. 51, #3,. P. 1980-1983. http://www.rmz-mg.com/letniki/rmz51/rmz51_1477-1850.pdf

Speciation & Thermospeciation

2026

García-Donas, N., Lorenzo, S., Higueras, P., Ávalos, O. A., García-Donas, A., Jaeger, J., & Barquero, J. I. **Spatial Distribution of Mercury and Potentially Toxic Elements in Soils from an Agricultural and Grazing Area Affected by Historical Mining**. Applied Sciences, 2026, 16(17), 8465. https://doi:10.3390/app16178465

Monteiro, L. C., Garnier, J., de Almeida, R., Bastos, W. R., Filomeno, C. L., de Souza, R. N., ... & Bernardi, J. V. E. **Experimental simulations and regional estimates of mercury emissions from fire-affected Cerrado soils (Central Brazil)**. Applied Geochemistry, 2026, 208, 107008. https://doi:10.1016/j.apgeochem.2026.107008

Bos, R., Rohovec, J., Navrátil, T., Kegel, A. H., Bolt, T. R., Lindström, S., ... & van de Schootbrugge, B. **Hg-accumulation in above-ground fern biomass and spore malformations around industrial sites (Czechia): Implications for mass extinction scenarios**. Chemosphere, 2026, 410, 145025. https://doi:10.1016/j.chemosphere.2026.145025

Sattarova, V., Bekesha, I., Melgunov, M., Mariash, A., Huang, X., Aksentov, K., & Dasgupta, S. **Mercury in the deep-sea sediments of the western Aleutian Trench: Spatio-temporal distribution and risk assessment**. Deep Sea Research Part I: Oceanographic Research Papers, 2026, 230, 104696. https://doi:10.1016/j.dsr.2026.104696

Kumari, J., Agarwalla, H., Gangopadhyay, M., Masto, R. E., Senapati, R., & Kumar, M. **Investigation into pre-combustion mercury removal in high-ash Indian coal using float-sink and rapid pyrolysis**. International Journal of Coal Preparation and Utilization, 2026, 1-17. https://doi:10.1080/19392699.2026.2666888

Paine, A. R., Frieling, J., Wagner, B.,Francke, A., Lacey, J. H., Mather, T. A., et al. **Terrestrial regulation of lacustrine Hg deposition during glacial-interglacial cycles**. Paleoceanography and Paleoclimatology, 2026, 41. https://doi:10.1029/2025PA005245

Barquero, J. I., Higueras, P., Esbrí, J. M., Jaeger, J. L., & García-Ordiales, E. **Evaluation of the new role of the invasive species (Procambarus clarkii) as an environmental indicator in polluted watersheds**. Environmental Geochemistry and Health, 2026, 48(2), 82. https://doi:10.1007/s10653-025-02953-4

2025

Chen, J., Liu, W., Zheng, W., Zhang, M., Leng, L., Yang, Z., ... & Li, H. **Study on the deactivation mechanism of mercury chloride catalyst employed for polyvinyl chloride production**. Chinese Journal of Chemical Engineering, 2025. https://doi:10.1016/j.cjche.2025.10.006

Wu, X., Xu, Y., Zhao, Z., Zhang, H., & Fei, X. **Upcycled CuS/magnetic slag composites: A circular economy strategy for flue gas mercury remediation.** Chemical Engineering Journal, 2025, 166679. https://doi:10.1016/j.cej.2025.166679

Gao, J., Ran, Z., Ran, J., Huang, X., Ma, C., & Shao, Y. **Enhanced $La_{0.875}Ce_{0.125}CoO_3$ catalyst for Hg^0 removal from low-temperature flue gas: H_2O and SO_2 resistance performance and mechanism**. Fuel, 2025, 394, 135074. https://doi:10.1016/j.fuel.2025.135074

Li, Z., Zhao, K., Yue, C., He, C., Li, P., Wang, X., ... & Wang, J. **Competition mechanism between Na release and Hg form evolution in high-temperature gasification condition revealed from bond distribution of coal slag**. Journal of the Energy Institute, 2025, 102269. https://doi:10.1016/j.joei.2025.102269

Fang, K., He, Y., Rao, S., Wang, J., Xu, J., & Shi, J. **Neglected but significant: High mercury alkylation but low carbon sequestration in paddy field as revealed by soil profiles survey**. Journal of Environmental Sciences, 2025. https://doi:10.1016/j.jes.2025.08.016

Lucwaba, Y. A., & Mandiwana, K. L. **Determination of Total Mercury and Mercury Thermospecies in Cement and Cement Raw Materials**. Analytica, 2025, 6(3), 26. https://doi:10.3390/analytica6030026

Yue, C., Zhu, Y., Chen, H., Wang, Y., Yan, L., Li, P., ... & Wang, J. **The migration and transformation behavior of mercury and sulfur during coal pyrolysis.** Fuel, 2025, 395, 135220. https://doi:10.1016/j.fuel.2025.135220

Aksentov, K., Sattarova, V., Lopatnikov, E., Alatorsev, A., Kim, D., Budanov, L., ... & Selutin, S. **Features of mercury geochemistry and the dynamics of its accumulation in bottom sediments of the northwestern Bering Sea over the past 150 years**. Marine Pollution Bulletin, 2025, 215, 117907. https://doi:10.1016/j.marpolbul.2025.117907

Covelli, S., Pisoni, C., Pavoni, E., Floreani, F., Petranich, E., Adami, G., ... & Busetti, M. **Lithogenic and anthropogenic contributions of trace metal(oid)s in coastal sediments near the Port of Trieste (northern Adriatic Sea): A geochemical normalisation approach based on regional background values**. Marine Pollution Bulletin, 2025, 214, 117774. https://doi:10.1016/j.marpolbul.2025.117774

2024

Meloni, F., Higueras, P. L., Cabassi, J., Nisi, B., Rappuoli, D., & Vaselli, O. **Thermal desorption technique to speciate mercury in carbonate, silicate, and organic-rich soils**. Chemosphere, 2024, 365, 143349. https://doi:10.1016/j.chemosphere.2024.143349

Floreani, F., Pavoni, E., Petranich, E., Antonini, P., Mauri, M., & Covelli, S. **Mercury speciation in soils through thermo-desorption technique as a rapid screening tool for risk assessment procedure at mercury-contaminated sites**. No. EGU24-10434, Copernicus Meetings, 2024. https://doi:10.5194/egusphere-egu24-10434

Frieling, J., Svensen, H. H., & Mather, T. A. **Mercury efficiently volatilized but not completely removed from sediments around igneous intrusions**. Geology, 2024. https://doi:10.1130/G52622.1

Frieling, J., Fendley, I.M., Nawaz, M.A., & Mather, T.A. **Assessment of Hg speciation changes in the sedimentary rock record from thermal desorption characteristics**. Geochemistry, Geophysics, Geosystems, 2024, 25, e2024GC011502. https://doi:10.1029/2024GC011502

Shuvaeva, O. V., Bekesha, I. A., & Troitskii, D. Y. **New advances in the enhancement of direct mercury speciation in solid matter on the example of HgCl, CH_3HgCl, HgS and $HgSO_4$ using programmable thermal release in combination with electrothermal atomic absorption spectrometry**. Microchemical Journal, 2024, 207, 111755. https://doi:10.1016/j.microc.2024.111755

Kumari, J., Agarwalla, H., Masto, R. E., Gangopadhyay, M., Senapati, R. N., & Kumar, M. **Pre-combustion mercury removal potential of rapid pyrolysis in high ash coal and mode of occurrence**. Fuel, 2024, 378, 132948. https://doi:10.1016/j.fuel.2024.132948

Meloni, F., Higueras, P. L., Cabassi, J., Nisi, B., Rappuoli, D., & Vaselli, O. **Thermal desorption technique to speciate mercury in carbonate, silicate, and organic-rich soils**. Chemosphere, 2024, 143349. https://doi:10.1016/j.chemosphere.2024.143349

Xin Yang, Caixia Yue, Yahui Wang, Jiancheng Wang, Liping Chang, Weiren Bao. **A study on the occurrence modes and distribution characteristics of sulfur and mercury in coal gasification slag**, Fuel, 2024, 374, 132423. https://doi:10.1016/j.fuel.2024.132423

Álvarez, R., Izquierdo, M., Serrano, H., García-Ordiales, E., García, C., Alberquilla, F., ... & Ordóñez, A. **Comparison of sediment bioavailable methods to assess the potential risk of metal (loid) s for river**

ecosystems. Ecotoxicology and Environmental Safety, 2024, 281, 116614. https://doi.org/10.1016/j.ecoenv.2024.116614

de Souza, J.P.R.; Garnier, J.; Quintarelli, J.M.; de Sousa Tonhá, M.; Roig, H.L.; Seyler, P.; de Souza, J.R. **Adapted Sequential Extraction Protocol to Study Mercury Speciation in Gold Mining Tailings: Implications for Environmental Contamination in the Amazon**. Toxics, 2024, 12, 326. https://doi.org/10.3390/toxics12050326

Frieling, J., Fendley, I.M., Nawaz, M.A., & Mather, T.A. **Assessment of Hg speciation changes in the sedimentary rock record from thermal desorption characteristics**. Geochemistry, Geophysics, Geosystems, 2024, 25, e2024GC011502. https://doi.org/10.1029/2024GC011502

Floreani, F., Pavoni, E., Petranich, E., Antonini, P., Mauri, M., and Covelli, S. **Mercury speciation in soils through thermo-desorption technique as a rapid screening tool for risk assessment procedure at mercury-contaminated sites**. EGU General Assembly, 2024, EGU24-10434, https://doi.org/10.5194/egusphere-egu24-10434

Kgabi, D.P., & Ambushe, A.A. **Quantification and thermo-desorption studies of mercury in sediments from Mokolo River, Limpopo Province, South Africa**. International Journal of Environmental Analytical Chemistry, 2024, 104(3), 672-685. https://doi.org/10.1080/03067319.2021.2024524

Modise, I.M., Panichev, N., & Mandiwana, K.L. T**he application of aluminium powder as an accumulation medium of mercury from air**. Atmosphere, 2024, 15(3), 368. https://doi.org/10.3390/atmos15030368

2023

Cai, X., Fan, Y., Hong, Q., Liu, Z., Qu, Z., Yan, N., & Xu, H. **Unveiling the Halogenation-Induced Formation of $Hg_3Se_2X_2$ (X= Cl, Br, and I) Compounds for Multiphase Mercury Cycling**. Environmental Science & Technology, 2023, 57(48), 20431–20439. https://doi.org/10.1021/acs.est.3c08021

Aksentov, K.I., Ivanov, M.V., Yaroshchuk, E.I., Charkin, A.N., Sattarova, V.V., Alatortsev, A.V., ... & Startsev, A.V. **The First Data on the Mercury Content and Its Forms in the Ferromanganese and Ferruginous Formations of Chaun Bay**. In: Doklady Earth Sciences, 2023, 1-5. Moscow: Pleiades Publishing. https://doi.org/10.1134/S1028334X23602183

Meloni, F., Farieri, A., Higueras, P. L., Esbrí, J. M., Nisi, B., Cabassi, J., Rappuoli, D. & Vaselli, O. **Mercury distribution in plants and soils from the former mining area of Abbadia San Salvatore (Tuscany, central Italy)**. Environmental Geochemistry and Health, 2023. https://doi.org/10.1007/s10653-023-01739-w

Du, H., Yin, X., Gu, X., Wang, D., Pierce, E. M., & Gu, B. **Dissolved Elemental Mercury [Hg (0) aq] Reactions and Purgeability in the Presence of Organic and Inorganic Particulates**. Environmental Science & Technology Letters, 2023, 10(8), 691-697. https://doi.org/10.1021/acs.estlett.3c00275

Gordeeva, O., & Pastukhov, M. **Forms of mercury in soils and its accumulation by herbs in the zone of influence of the sludge storage of a chlor-alkali plant (Southern Baikal region)**. In E3S Web of Conferences, 2023, 417, 02013. https://doi.org/10.1051/e3sconf/202341702013

Floreani, F.; Pavoni, E.; Gosar, M.; Covelli, S. **Evasion of Gaseous Elemental Mercury from Forest and Urban Soils Contaminated by Historical and Modern Ore Roasting Processes (Idrija, Slovenia)**. Atmosphere 2023, 14, 1036. https://doi.org/10.3390/atmos14061036

Vöröš, D., Baizán, P. D., Slavíček, K., Díaz-Somoano, M., & Geršlová, E. **Mercury occurrence and speciation in sediments from hard coal mining in Czechia**. Journal of Hazardous Materials, 2023, 132204. https://doi.org/10.1016/j.jhazmat.2023.132204

Zhang, L., Kang-Yun, C. S., Lu, X., Chang, J., Liang, X., Pierce, E. M., ... & Gu, B. **Adsorption and intracellular uptake of mercuric mercury and methylmercury by methanotrophs and methylating bacteria**. Environmental Pollution, 2023, 121790. https://doi.org/10.1016/j.envpol.2023.121790

Kim, D., Aksentov, K., Astakhov, A., Sattarova, V., Ivanov, M., Alatorsev, A., Obrezkova, M., Selutin, S. **Geochemistry aspects of modern mercury accumulation in bottom sediments from the south-western Chukchi Sea**. Marine Pollution Bulletin, 2023, 189, 114768. https://doi.org/10.1016/j.marpolbul.2023.114768

Li, B., Zhou, J., Lu, Y., Zhou, L., Liu, Z., Zhou, Q., & Wang, T. **Effect of amorphous ordered mesoporous carrier on adsorption and desorption of Hg0 over CeOx-amTiO_2**. Fuel, 2023, 341, 127759. https://doi.org/10.1016/j.fuel.2023.127759

Yuan, Q., Liu, X., Xiao, Y., Wang, T., Wang, J., & Zhang, Y. **Long-term environmental stability of bromide coupled mechanical modified fly ash after mercury adsorption**. Journal of Environmental Chemical Engineering, 2023, 109622. https://doi.org/10.1016/j.jece.2023.109622

Zhou, L., Zhou, J., Zhou, Q., Lu, Y., Li, B., Liu, Z., & Wang, T. **Study on the Elution Mechanism of Hgo on Mercury-Loaded Adsorbent in KCl Solution Via Programmed Temperature Desorption (TPD) Method**. Available at SSRN 4373137 https://doi.org/10.2139/ssrn.4373137

Cao, Q., Wang, C., Tang, D., Zhang, X., Wu, P., Zhang, Y., ... & Zheng, Z. **Enhanced elemental mercury removal in coal-fired flue gas by modified algal waste-derived biochar: Performance and mechanism**. Journal of Environmental Management, 2023, 325, 116427. https://doi.org/10.1016/j.jenvman.2022.116427

Liu, Y., Xue, F., Wang, T., Wang, Q., & Pan, W.P. **Three-dimensional ordered zeolite-templated carbon with covalent sulfur for efficient removal of elemental mercury: Experimental study and molecular dynamic simulation**. Fuel Processing Technology, 2023, 239, 107540. https://doi.org/10.1016/j.fuproc.2022.107540

Troitskii, D., Bekesha, I., Shuvaeva, O.V., & Plyusnin, P.E. **Preliminary exploration on direct mercury speciation in solid samples by using thermal release coupled to electrothermal atomic absorption spectrometry**. Analytical Methods, 2023. https://doi.org/10.1039/D2AY01990F

2022

Berisha, S., Živković, I., Kotnik, J., Mlakar, T. L., & Horvat, M. **Temperature fractionation of mercury in the cement production process using quadrupole mass spectrometry**. Cement and Concrete Research, 2022, 162, 106970. https://doi.org/10.1016/j.cemconres.2022.106970

Hong, Q., Xu, H., Li, J., Huang, W., Qu, Z., & Yan, N. **Regulation of the Sulfur Environment in Clusters to Construct a Mn–Sn_2S_6 Framework for Mercury Bonding**. Environmental Science & Technology, 2022, 56(4), 2689-2698. https://doi.org/10.1021/acs.est.1c08529

Yang, J., Shi, N., Yan, B., Wang, T., & Pan, W. P. **Removal of elementary mercury by solid sorbents at different temperatures: Variation of the desorption activation energy through thermal desorption analysis**. Fuel, 2022, 307, 121889. https://doi.org/10.1016/j.fuel.2021.121889

Ghezzi, L., Valerio, M., & Petrini, R. **Novel Determination of Elemental Mercury in Silicate Rock by Thermal Desorption.** Analytical Letters, 2022, 1-9. https://doi.org/10.1080/00032719.2022.2125984

Shuvaeva, O. V., Gustaitis, M. A., Pokhorukova, N. I., Troitsky, D. Y., & Bekesha, I. A. **The study of mercury accumulation by plants depending on the chemical form of the element in the growing media**. Limnology and Freshwater Biology, 2022 (3), 1342-1345. https://doi.org/10.31951/2658-3518-2022-A-3-1342

E. Petranich, S. Predonzani, A. Acquavita, N. Mashyanov, S. Covelli. **Rapid thermoscanning technique for direct analysis of mercury species in contaminated sediments: From pure compounds to real sample application**. Applied Geochemistry, 2022, 105393. https://doi.org/10.1016/j.apgeochem.2022.105393

Ghezzi, L.; Arrighi, S.; Giannecchini, R.; Bini, M.; Valerio, M.; Petrini, R. **The Legacy of Mercury Contamination from a Past Leather Manufacturer and Health Risk Assessment in an Urban Area (Pisa Municipality, Italy)**. Sustainability, 2022, 14, 4367. https://doi.org/10.3390/su14074367

S. Rodríguez-Sánchez, P. Díaz, B. Ruiz, S. González, M. Díaz-Somoano, E. Fuente. **Food industrial biowaste-based magnetic activated carbons as sustainable adsorbents for anthropogenic mercury emissions**. Journal of Environmental Management, 2022, 312, 2022, 114897. https://doi.org/10.1016/j.jenvman.2022.114897

Dipuo P. Kgabi & Abayneh A Ambushe. **Quantification and thermo-desorption studies of mercury in sediments from Mokolo River, Limpopo Province, South Africa**. International Journal of Environmental Analytical Chemistry, 2022. https://doi.org/10.1080/03067319.2021.2024524

Qian, Y., Liang, Y., Cao, Q., Wang, Z., Shi, Y., & Liang, H. **Concentration and speciation of mercury in atmospheric particulates in the Wuda coal fire area, Inner Mongolia, China**. Environmental Science and Pollution Research, 2022, 29(3), 3879-3887. https://doi.org/10.21203/rs.3.rs-573885/v1

Yang Yang, Wenqing Xu, Rui Huang, Tingyu Zhu, Jianfei Song. **Enhancement of Hg0 adsorption performance at high temperature using Cu-Zn bimetallic sulfide with elevated thermal stability**. Chemical Engineering Journal, 2022, 431(1), 134028. https://doi.org/10.1016/j.cej.2021.134028

Jing Yang, Nan Shi, Bangbo Yan, Tao Wang, Wei-Ping Pan. **Removal of elementary mercury by solid sorbents at different temperatures: Variation of the desorption activation energy through thermal desorption analysis**. Fuel, 2022, 307, 121889. https://doi.org/10.1016/j.fuel.2021.121889

Myagkaya, I. N., Gustaytis, M. A., Saryg-ool, B. Y., & Lazareva, E. V. **Mercury Partitioning and Behavior in Streams and Source Areas Affected by the Novo-Ursk Gold Sulfide Tailings (West Siberia, Russia)**. Mine Water and the Environment, 2022, 1-21. https://doi.org/10.1007/s10230-022-00859-6

2021

S. Covelli, E. Petranich, E. Pavoni, S. Signore. **Can Sediments Contaminated by Mining be a Source of Mercury in the Coastal Environment Due to Dredging? Evidence from Thermo-Desorption and Chemical Speciation**. Bull Environmental Contamination and Toxicology, 2021, https://doi.org/10.1007/s00128-021-03159-x

Esbrí, J. M., Martinez-Coronado, A., Jurado, S. R., García-Noguero, E., Higueras, P. **Uncertainties in the Mercury Mass Balance in a Coal-Based IGCC Power Plant (Puertollano, Spain)**. Energy Engineering, 2021, 118(4), 1223–1235. https://doi.org/10.32604/EE.2021.015781

Esbrí, J.M., Rivera, S., Tejero, J., Higueras, P.L. **Feasibility study of fluorescent lamp waste recycling by thermal desorption**. Environ Sci Pollut Res., 2021. https://doi.org/10.1007/s11356-021-16800-3

Su Y, Liu X, Teng Y, Zhang K. **A Preliminary Study on Dependence of Mercury Distribution on the Degree of Coalification in Ningwu Coalfield, Shanxi, China**. Energies, 2021, 14(11), 3119. https://doi.org/10.3390/en14113119

Su, Y.; Liu, X.; Teng, Y.; Zhang, K. **Mercury Speciation in Various Coals Based on Sequential Chemical Extraction and Thermal Analysis Methods**. Energies, 2021, 14, 2361. https://doi.org/10.3390/en14092361

Lin Chang, Yongchun Zhao, Yi Zhang, Xuehai Yu, Zenghua Li, Bengen Gong, Huan Liu, Shuzhou Wei, Hao Wu, Junying Zhang. **Mercury species and potential leaching in sludge from coal-fired power plants**. J. Hazardous Materials, 2021, 403, 123927. https://doi.org/10.1016/j.jhazmat.2020.123927

Radomskaya V.I., Pavlova L.M., Shumilova L.P., Voropaeva E.N., Osipova N.A. **Predictive Assessment of Toxicants Migration from Technogenic Gold-Mining Wastes (Case Study of the Tailings Management Facility of Tokur Mill, Amur Region, Russia)**, 2021. https://doi.org/10.21203/rs.3.rs-202868/v1

Viso, S.; Rivera, S.; Martinez-Coronado, A.; Esbrí, J.M.; Moreno, M.M.; Higueras, P. **Biomonitoring of Hg0, Hg2+ and Particulate Hg in a Mining Context Using Tree Barks**. Int. J. Environ. Res. Public Health, 2021, 18, 5191. https://doi.org/10.3390/ijerph18105191

Yahui Qian, Yanci Liang, Qingyi Cao, Zhe Wang, Yunyun Shi, Handong Liang. **Concentration and speciation of mercury in atmospheric particulates in the Wuda coal fire area, Inner Mongolia, China**. Environ Sci Pollut Res, 2021. https://doi.org/10.1007/s11356-021-15805-2

Sergey S. Volynkin, Pavel A. Demakov, Olga V. Shuvaeva, Konstantin A. Kovalenko. **Metal-organic framework application for mercury speciation using solid phase extraction followed by direct thermal release–electrothermal atomization atomic absorption spectrophotometric detection (ETA AAS)**. Analytica Chimica Acta, 2021, 1177, 338795. https://doi.org/10.1016/j.aca.2021.338795

Janeiro-Tato, I., Lopez-Anton, M.A., Baragaño, D. et al. **Immobilization of mercury in contaminated soils through the use of new carbon foam amendments**. Environ Sci Eur, 2021, 33, 127. https://doi.org/10.1186/s12302-021-00569-w

Gustaytis M.A., Myagkaya I.N., Malov V.I., Lazareva E.V., Shuvaeva O.V. **Mercury speciation in natural and miningrelated systems**. J. Sib. Fed. Univ. Chem., 2021, 14(2), 184–196. https://doi.org/10.17516/1998-2836-0227

2020

L.N. Luchsheva, V.B. Kurnosov, and Yu.A. Konovalov. **Mercury Thermoforms and Their Distribution in the Sedimentary Sequence of the Juan De Fuca Ridge**. Geochemistry International, 2020, 58(8), 922-932. https://doi.org/10.1134/S0016702920060051

Kirill I. Aksentov, Valentina V. Sattarova. **Mercury geochemistry of deep-sea sediment cores from the Kuril area, northwest Pacific**. Progress in Oceanography, 2020, 180, 102235. https://doi.org/10.1016/j.pocean.2019.102235

Igor Živkovic , Sabina Berisha, Jože Kotnik, Marta Jagodic, Milena Horvat. **Traceable Determination of Atmospheric Mercury Using Iodinated Activated Carbon Traps**. Atmosphere. 2020, 11, 780; https://doi.org/10.3390/atmos11080780

Jarol R. Miranda-Andrades, Sonia Letichevsky, Dunieskys R. Gonzalez Larrude, Ricardo Q. Aucelio. **Photo-generation of mercury cold vapor mediated by graphene quantum dots/TiO2 nanocomposite: On line time-resolved speciation at ultra-trace levels**. Analytica Chimica Acta. 2020, 1127, 256-268. https://doi.org/10.1016/j.aca.2020.06.048

Mathebula, M.W., Panichev, N. & Mandiwana, K. **Determination of mercury thermospecies in South African coals in the enhancement of mercury removal by pre-combustion technologies**. Sci Rep., 2020, 10, 19282. https://doi.org/10.1038/s41598-020-76453-z

Qingyi Cao, Liu Yang, Yahui Qian, Handong Liang. **Study on Mercury Species in Coal and Pyrolysis-Based Mercury Removal before Utilization**. ACS Omega 2020, 5(32), 20215–20223, https://doi.org/10.1021/acsomega.0c01875

J. Wang, T. Wang, B. Yan, Q. Wang, Y. Zhang, W-P. Pan. **Removal of ionic mercury from gasoline using zeolite 13X impregnated with KI: Adsorption mechanisms and simulation**. Chemical Engineering Journal, 2020. https://doi.org/10.1016/j.cej.2020.128170

N. Mashyanov, S. Pogarev, V. Ryzhov, E. Panova. **Mercury occurrence in shungite and coal**. EGU2020-5488. https://doi.org/10.5194/egusphere-egu2020-5488

S.A. Thomas, B. Mishra, S.C.B. Myneni. **Cellular Mercury Coordination Environment, and Not Cell Surface Ligands, Influence Bacterial Methylmercury Production**. Environmental Science & Technology, 2020, 54(7), 3960-3968. https://doi.org/10.1021/acs.est.9b05915

2019

David Melero, Belén Lobato, Maria Antonia López-Antón, Maria Rosa Martínez-Tarazona. **Identification of mercury species in minerals with different matrices and impurities by thermal desorption technique**. Environ Sci Pollut Res., 2019. 26, 10867–10874. https://doi.org/10.1007/s11356-019-04245-8

Jarol R. Miranda-Andrades, Sarzamin Khan, Carlos A.T. Toloza, Roberta M. Maciel, Rainério Escalfoni Jr, Maria Luiza Bragança Tristão, Ricardo Q. Aucelio. **Speciation and ultra trace determination of mercury in produced waters from offshore drilling operations using portable instrumentation and matrix-matching calibration**. Microchemical Journal, 2019, 146, 1072-1082. https://doi.org/10.1016/j.microc.2019.02.045

Gallego, J.L.R., López-Antón, M.A., de la Rosa, D.M. et al. **Assessment of mercury pollution sources in beach sand and coastal soil by speciation analysis**. Environ Sci Eur 2019, 31, 79. https://doi.org/10.1186/s12302-019-0264-3

Date SS, Parks JM, Rush KW, Wall JD, Ragsdale SW, Johs A. **Kinetics of enzymatic mercury methylation at nanomolar concentrations catalyzed by HgcAB**. Appl Environ Microbiol 2019, 85: e00438-19. https://doi.org/10.1128/AEM.00438-19

Zhao, L., Li, Y., Zhang, L., Zheng, J., Pierce, E. M., & Gu, B. **Mercury adsorption on minerals and its effect on microbial methylation**. ACS Earth and Space Chemistry, 2019, 3(7), 1338-1345. https://doi.org/10.1021/acsearthspacechem.9b00039

Liu, Zhilou; Wang, Dongli; Yang, Shu; Liu, Hui; Liu, Cao; Xie, Xiaofeng; Xu, Zhifeng. **Selective recovery of mercury from high mercury-containing smelting wastes using an iodide solution system**. Journal of Hazardous Materials, 2019, 363, 179-186. https://doi.org/10.1016/j.jhazmat.2018.09.001

2018

Shuang Bian, Jiawen Wu, Yongsheng Zhang, Tao Wang, Pauline Norris, and Wei-Ping Pan. **Increasing Recovery Ratios with an Improved European Community Bureau of Reference Method for Mercury Analysis in Flue Gas Desulfurization Gypsum**. Energy Fuels, 2018, 32(8), 8340–8347. https://doi.org/10.1021/acs.energyfuels.8b0182

R. Zarzycki, M. Wichliński. **Cyclone furnace as a way for mercury removal from lignite**. MATEC Web of Conferences 240, 05037, 2018. https://doi.org/10.1051/matecconf/201824005037

Staun, C., Vaughan, J., Lopez-Anton, M. A., Rumayor, M., & Martínez-Tarazona, M. R. **Geochemical speciation of mercury in bauxite**. Applied Geochemistry, 2018, 93, 30-35. https://doi.org/10.1016/j.apgeochem.2018.03.007

2017

Nikolay R. Mashyanov, Sergey E. Pogarev, Elena G. Panova, Nikolay Panichev, Vladimir Ryzhov. **Determination of mercury thermospecies in coal**. 2017. Fuel 203, 973–980. https://doi.org/10.1016/j.fuel.2017.03.085

M. Rumayor, J.R. Gallego, E. Rodríguez-Valdés, M. Díaz-Somoano. **An assessment of the environmental fate of mercury species in highly polluted brownfields by means of thermal desorption**. Journal of Hazardous Materials 2017. 325, 1–7. https://doi.org/10.1016/j.jhazmat.2016.11.068

Zhang, Y., Zhao, L., Guo, R., Wang, J., Cao, Y., Orndorff, W., & Pan, W. **Influences of NO on mercury adsorption characteristics for HBr modified fly ash**. International Journal of Coal Geology, 2017, 170, 77–83. https://doi.org/10.1016/j.coal.2016.10.002

Gordeeva, O.N., Belogolova, G.A. & Pastukhov, M.V. **Mercury speciation and mobility in soils of industrial areas in the Baikal region, Southern Siberia, Russia**. Environ Earth Sci, 2017, 76, 558. https://doi.org/10.1007/s12665-017-6882-4

2016

Jun Zhong, Fangyong Li, Junhui Fan. **Thermal Stability and Adsorption of Mercury Compounds in Fly Ash**. The Open Fuels & Energy Science Journal, 2016, 9, 114-125. https://doi.org/10.2174/1876973X01609010114

Rumayor, M., Lopez-Anton, M. A., Díaz-Somoano, M., Maroto-Valer, M. M., Richard, J.-H., Biester, H., & Martínez-Tarazona, M. R. **A comparison of devices using thermal desorption for mercury speciation in solids.** Talanta, 2016, 150, 272–277. https://doi.org/10.1016/j.talanta.2015.12.058

2015

Matej Sedlar, Majda Pavlin, Arkadij Popovič, Milena Horvat. **Temperature stability of mercury compounds in solid substrates**. Open Chem. 2015; 13, 404–419. https://doi.org/10.1515/chem-2015-0051

Rumayor M., Díaz-Somoano M., López-Antón M.A., Ochoa-González R., Martínez-Tarazona M.R. **Temperature programmed desorption as a tool for the identification of mercury fate in wet-desulphurization systems.** Fuel, 2015, 148, 98–103. https://doi.org/10.1016/j.fuel.2015.01.101

Rumayor M., Diaz-Somoano M., Lopez-Anton M.A., Martinez-Tarazona M.R. **Application of thermal desorption for the identification of mercury species in solids derived from coal utilization.** Chemosphere, 2015, 119, 459–465. https://doi.org/10.1016/j.chemosphere.2014.07.010

Rumayor M., Lopez-Anton M.A., Díaz-Somoano M., Martínez-Tarazona M.R. **A new approach to mercury speciation in solids using a thermal desorption technique.** Fuel, 2015, 160, 525–530. https://doi.org/10.1016/j.fuel.2015.08.028

Rumayor M., Fernandez-Miranda N., Lopez-Anton M.A., Diaz-Somoano M., Martinez-Tarazona M.R. **Application of mercury temperature programmed desorption (HgTPD) to ascertain mercury/char interactions.** Fuel Processing Technology, 2015, 132, 9–14. https://doi.org/10.1016/j.fuproc.2014.12.032

2014

Díaz-Somoano, M., Popa, A., Rumayor, M., López-Antón, M.A., Martínez-Tarazona, M.R., Ilia, G. **Gaseous mercury behaviour in the presence of functionalized styrene–divinylbenzene copolymers**. Pure and Applied Chemistry, 2014, 86(11), 1861–1869. https://doi.org/10.1515/pac-2014-0614

Wichliński, M., Kobyłecki, R., & Bis, Z. **The release of mercury from polish coals during thermal treatment of fuels in a fluidized bed reactor**. Fuel Processing Technology, 2014, 119, 92–97. https://doi.org/10.1016/j.fuproc.2013.10.011

2013

Gustaytis M. A., Lazareva E. V., Myagkaya I. N., Bogush A. A., Shuvaeva O. V. **Mercury species in solid matter of dispersion of the Ursk tailing dispersion train (Ursk village, Kemerovo region, Russia)**. E3S Web of Conferences. – EDP Sciences, 2013, 1, 19007. https://doi.org/10.1051/e3sconf/20130119007

Li P., Feng X., Qiu G., Zhang J., Meng B., Wang J. **Mercury speciation and mobility in mine wastes from mercury mines in China**. Environmental Science and Pollution Research, 2013, 20(12), 8374–8381. https://doi.org/10.1007/s11356-013-1731-9

Yin R., Feng X., Wang J., Li P., Liu J., Zhang Y., Chen J., Zheng L., Hu T. **Mercury speciation and mercury isotope fractionation during ore roasting process and their implication to source identification of downstream sediment in the Wanshan mercury mining area, SW China**. Chemical Geology, 2013, 336, 72–79. https://doi.org/10.1016/j.chemgeo.2012.04.030

Liu X., Wang S., Zhang L., Wu Y., Duan L., Hao J. **Speciation of mercury in FGD gypsum and mercury emission during the wallboard production in China**. Fuel, 2013, 111, 621–627. https://doi.org/10.1016/j.fuel.2013.03.052

Park, C. H., Eom, Y., Lee, L. J.-E., & Lee, T. G. **Simple and accessible analytical methods for the determination of mercury in soil and coal samples**. Chemosphere, 2013, 93(1), 9–13. https://doi.org/10.1016/j.chemosphere.2013.04.044

Rumayor M., Diaz-Somoano M., Lopez-Anton M.A., Martinez-Tarazona M.R. **Mercury compounds characterization by thermal desorption**. Talanta, 2013, 114, 318–322. https://doi.org/10.1016/j.talanta.2013.05.059

Zheng W., Lin H., Mann B. F., Liang L., Gu B. **Oxidation of dissolved elemental mercury by thiol compounds under anoxic conditions**. Environmental Science & Technology, 2013, 47(22), 12827–12834. https://doi.org/10.1021/es402697u

2012

Wang J., Feng X., Anderson C. W. N., Wang H., Zheng L., Hu T. **Implications of mercury speciation in thiosulfate treated plants**. Environmental Science & Technology, 2012, 46(10), 5361–5368. https://doi.org/10.1021/es204331a

2011

Willians Llanos, David Kocman, Pablo Higueras and Milena Horvat. **Mercury emission and dispersion models from soils contaminated by cinnabar mining and metallurgy**. J. Environ. Monit., 2011, 13, 3460. https://doi.org/10.1039/c1em10694e

2010

S. Mark Wilhelm and Mark Nelson. **Interaction of Elemental Mercury with Steel Surfaces**. J Corrosion Science and Engineering, 2010, 13(38). ISSN 1466-8858

2009

Campos R. C., Gonçalves R. A., Brandão G. P., Azevedo M. S., Oliveira F., Wasserman J. **Methylmercury determination using a hyphenated high performance liquid chromatography ultraviolet cold vapor multipath atomic absorption spectrometry system**. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64(6), 506–512.

2008

Olga V. Shuvaeva, Maria A. Gustaytis, Gennadii N. Anoshin. **Mercury speciation in environmental solid samples using thermal release technique with atomic absorption detection**. Analytica Chimica Acta. 2008, 621, 148–154. https://doi.org/10.1016/j.aca.2008.05.034

2006

Ru-Jin Huang, Zhi-Xia Zhuang, Yi Tai, Rong-Fu Huang, Xiao-Ru Wang, Frank S.C. Lee. **Direct analysis of mercury in Traditional Chinese Medicines using thermolysis coupled with on-line atomic absorption spectrometry**. Talanta. 2006, 68, 728–734. https://doi.org/10.1016/j.talanta.2005.05.014

2004

N. Mashyanov, S. Pogarev, V. Ryzhov, A. Matsuyama, H. Akagi. **Mercury thermo-speciation in contaminated soils and sediments**. RMZ – Materials and Geoenvironment. 2004. 51(3), 1980-1983. http://www.rmz-mg.com/letniki/rmz51/rmz51_1851-2067.pdf

Volcanoes & Geothermal Zones

2026

Della Sala, S., Papadimitriou, V., Polymenakou, P., Kutterolf, S., Frieling, J., Pyle, D. M., ... & Papanikolaou, D. **A prolonged hydrothermal past at Santorini Caldera revealed by sedimentary trace metal and microbial signatures**. Nature Communications, 2026, 17, 9398. https://doi:10.1038/s41467-026-75931-8

Li, C., Su, H., Liu, B. et al. **H_2, CO_2, ^{222}Rn, and Hg degassing from soil gas after a strong earthquake with implications for concealed fault detection in the northeastern Tibetan Plateau**. Sci Rep., 2026. https://doi:10.1038/s41598-026-68420-x

Wei, H., Zhang, X., & Qiu, Z. **Pulsed volcanism of the Emeishan large igneous province caused the Guadalupian (Middle Permian) mass extinction**. Geological Society of America Bulletin, 2026. https://doi:10.1130/B38771.1

Martinez, M. O., Gion, A., Nazarov, K., Stefánsson, A., Galeczka, I., Della Sala, S., ... & Blundy, J. **Trace Elements in Geothermal Fluids of Montserrat, Eastern Caribbean**. In 87th EAGE Annual Conference & Exhibition, 2026, 1, 1-5. European Association of Geoscientists & Engineers, 2026.

2025

Sun, Y., Li, P., Zhang, Y., Zhao, X., Li, Y., Guo, Z., ... & Xie, X. **Gaseous Elemental Mercury Emissions in the Yangbajing Geothermal Field, Tibetan Plateau**. Applied Geochemistry, 2025, 193, 106540. https://doi:10.1016/j.apgeochem.2025.106540

Zhang, K., He, H., Li, Y., Lu, C., Gao, Z., Liu, Z., & Chen, Z. **Spatial distribution of mercury in geothermal springs and its correlation with tectonic setting in the Bayan Har block of Tibetan Plateau, China**. Geothermics, 2025, 130, 103351. https://doi:10.1016/j.geothermics.2025.103351

Wang, Y., Lu, J., Yang, M., Vervoort, P., Zhou, K., Yager, J. A., ... & Hilton, J. **Two episodes of Gzhelian (latest Carboniferous) volcanism immediately predate Asselian (early Permian) cooling and glaciation**. Global and Planetary Change, 2025, 105129. https://doi:10.1016/j.gloplacha.2025.105129

Zhang, P., Yang, M., Lu, J., Jiang, Z., Wang, L., Zhu, Y., ... & Hilton, J. **Terrestrial mercury anomalies across the Permian-Triassic transition in North China linked to volcanism**. Chemical Geology, 2025,673, 122555. https://doi:10.1016/j.chemgeo.2024.122555

Huang, H., Deng, C., Grasby, S. E., Cawood, P. A., Hou, M., Yang, C., ... & Yin, R. **Mercury evidence of Emeishan volcanism driving the mid-Capitanian (Middle Permian) extinction**. Geological Society of America Bulletin, 2025, 137(3-4), 1177-1184. https://doi:10.1130/B37796.1

Zhang, L., Guo, L., Shi, D., & Bao, C. **Mercury isotope signatures in soils reveal degassing from fault zones on the eastern margin of the Tibetan Plateau**. Applied Geochemistry, 2025, 106341. https://doi:10.1016/j.apgeochem.2025.106341

2024

Fendley, I. M., Frieling, J., Mather, T. A., Ruhl, M., Hesselbo, S. P., & Jenkyns, H. C. **Early Jurassic large igneous province carbon emissions constrained by sedimentary mercury.** Nature Geoscience, 2024, 17(3), 241-248. https://doi:10.1038/s41561-024-01378-5

Zhang, P., Yang, M., Lu, J., Jiang, Z., Wang, L., Zhu, Y., ... & Hilton, J. **Terrestrial mercury anomalies across the Permian-Triassic transition in North China linked to volcanism**. Chemical Geology, 2024, 122555. https://doi:10.1016/j.chemgeo.2024.122555

Edwards, B. A., Outridge, P. M., & Wang, F. **Mercury from Icelandic geothermal activity: High enrichments in soils, low emissions to the atmosphere**. Geochimica et Cosmochimica Acta, 2024, 378, 286-299. https://doi:10.1016/j.gca.2024.06.026

Edwards, B. A., Pfeffer, M. A., Ilyinskaya, E., Kleine-Marshall, B. I., Mandon, C. L., Cotterill, A., ... & Wang, F. **Exceptionally low mercury concentrations and fluxes from the 2021 and 2022 eruptions of Fagradalsfjall volcano, Iceland**. Science of the Total Environment, 2024, 917, 170457. https://doi.org/10.1016/j.scitotenv.2024.170457

2023

Liu, Z., Li, Y., Chen, Z., Zhao, Z., Huangfu, R., Zhao, Y., ... & Lu, C. **Environmental impacts of ^{222}Rn, Hg and CO_2 emissions from the fault zones in the western margin of the Ordos block, China**. Environmental Geochemistry and Health, 2023, 45(2), 457-472. https://doi.org/10.1007/s10653-022-01350-5

Zhou, H., Su, H., Li, C., & Wan, Y. **Geochemical precursory characteristics of soil gas Rn, Hg, H_2, and CO_2 related to the 2019 Xiahe Ms5.7 earthquake across the northern margin of West Qinling fault zone, Central China**. Journal of Environmental Radioactivity, 2023, 264, 107190. https://doi.org/10.1016/j.jenvrad.2023.107190

Walker-Trivett, C.A., Kender, S., Bogus, K.A. et al. **Oceanic Anoxic Event 2 triggered by Kerguelen volcanism**. Nat Commun, 2024, 15, 5124. https://doi.org/10.1038/s41467-024-49032-3

Indraswari, A. O., Frieling, J., Mather, T. A., Dickson, A. J., Jenkyns, H. C., & Idiz, E. **Investigating the behavior of sedimentary mercury (Hg) during burial-related thermal maturation**. Geochemistry, Geophysics, Geosystems, 25, e2024GC011555. https://doi.org/10.1029/2024GC011555

Pan, F., Huang, J.H., & Feng, X. **Sources, fates, and geochemical cycling of mercury in geothermal fields: Insights from mercury isotopes**. Geophysical Research Letters, 2024, 51(9), e2023GL107384. https://doi.org/10.1029/2023GL107384

Bos, R., Zheng, W., Lindström, S., Sanei, H., Waajen, I., Fendley, I. M., ... & van de Schootbrugge, B. **Climate-forced Hg-remobilization associated with fern mutagenesis in the aftermath of the end-Triassic extinction**. Nature Communications, 2024, 15(1), 3596. https://doi.org/10.1038/s41467-024-47922-0

Yang, B., Zhang, X., Yi, J., Shi, W., Sun, S., Sun, H., & Su, G. **Carbon-cycle perturbations and intensified continental chemical weathering linked to volcanism during the Jenkyns Event in the Ordos Basin**. Geological Journal, 2024. https://doi.org/10.1002/gj.4928

J. Frieling, T.A. Mather, C. März, H.C. Jenkyns, R. Hennekam, G.-J. Reichart, C.P. Slomp, N.A.G.M. van Helmond. **Effects of redox variability and early diagenesis on marine sedimentary Hg records**. Geochimica et Cosmochimica Acta, 2023, 351, 78-95. https://doi.org/10.1016/j.gca.2023.04.015

Wang, Y., Lu, J., Yang, M., Yager, J. A., Greene, S. E., Sun, R., ... & Hilton, J. **Volcanism and wildfire associated with deep-time deglaciation during the Artinskian (early Permian)**. Global and Planetary Change, 2023, 104126. https://doi.org/10.1016/j.gloplacha.2023.104126

Zhang, P., Yang, M., Lu, J., Jiang, Z., Zhou, K., Liu, H., ... & Bond, D. P. **Middle Jurassic terrestrial environmental and floral changes linked to volcanism: Evidence from the Qinghai-Tibet Plateau, China**. Global and Planetary Change, 2023, 104094. https://doi.org/10.1016/j.gloplacha.2023.104094

Edwards, B.A., Pfeffer, M.A., Jyhannsson, þ., Outridge, P.M., Wang, F. **An inter-method comparison of mercury measurements in Icelandic volcanic gases**. Applied Geochemistry, 2023, https://doi.org/10.1016/j.apgeochem.2023.105654

Jones, M.T., Stokke, E.W., Rooney, A.D., Frieling, J., Pogge von Strandmann, P.A., Wilson, D.J., ... & Schultz, B.P. **Tracing North Atlantic volcanism and seaway connectivity across the Paleocene–Eocene Thermal Maximum (PETM)**. EGUsphere, 2023, 1-53. https://doi.org/10.5194/egusphere-2023-36

Vickers, M.L., Jelby, M.E., Śliwińska, K.K., Percival, L.M., Wang, F., Sanei, H., ... & Galloway, J.M. **Volcanism and carbon cycle perturbations in the High Arctic during the Late Jurassic–Early Cretaceous**. Palaeogeography, Palaeoclimatology, Palaeoecology, 2023, 111412. https://doi.org/10.1016/j.palaeo.2023.111412

2022

Font, E., Duarte, L.V., Dekkers, M.J., Remazeilles, C., Egli, R., Spangenberg, J.E., ... & Adatte, T. **Rapid light carbon releases and increased aridity linked to Karoo–Ferrar magmatism during the early Toarcian oceanic anoxic event**. Scientific reports, 2022, 12(1), 1-13. https://doi.org/10.1038/s41598-022-08269-y

Zhang, P., Lu, J., Yang, M., Bond, D. P., Greene, S. E., Liu, L., ... & Hilton, J. **Volcanically-Induced Environmental and Floral Changes Across the Triassic-Jurassic (TJ) Transition**. Frontiers in Ecology and Evolution, 2022, 10. https://doi.org/10.3389/fevo.2022.853404

Bracquart, E., Charbonnier, G., Garel, S., Munier, T., Adatte, T., & Danzelle, J. **New evidences of subaerial volcanism as a trigger for the Kilian event (Aptian-Albian transition) and major climatic changes from offshore Morocco (DSDP Site 545)**. Global and Planetary Change, 2022, 218, 103959. https://doi.org/10.1016/j.gloplacha.2022.103959

Lv, D., Wang, L., Isbell, J.L., Lu, C., Li, P., Wang, Y., & Zhang, Z. **Records of chemical weathering and volcanism linked to paleoclimate transition during the Late Paleozoic Icehouse**. Global and Planetary Change, 2022, 217, 103934. https://doi.org/10.1016/j.gloplacha.2022.103934

Lu, Y., Hao, F., Shen, J., Lu, Y., Song, H., Wang, Y., & Gou, Q. **High-resolution volcanism-induced oceanic environmental change and its impact on organic matter accumulation in the Late Ordovician Upper Yangtze Sea**. Marine and Petroleum Geology, 2022, 136, 105482. https://doi.org/10.1016/j.marpetgeo.2021.105482

Qiu, Z., Wei, H., Tian, L., Corso, J. D., Zhang, J., & Zou, C. **Different controls on the Hg spikes linked the two pulses of the Late Ordovician mass extinction in South China**. Scientific Reports, 2022, 12(1), 1-12. https://doi.org/10.1038/s41598-022-08941-3

2021

Brock A. Edwards, D. Skye Kushner, Peter M. Outridge, Feiyue Wang. **Fifty years of volcanic mercury emission research: Knowledge gaps and future directions**. Sci. Total Environ., 2021, 757, 143800. https://doi.org/10.1016/j.scitotenv.2020.143800.

Svetlana N. Kokh, Ella V. Sokol, Maria A. Gustaytis, Ivan A. Sokol, Anna S. Deviatiiarova. **Onshore mud volcanoes as a geological source of mercury: Case study from the Kerch Peninsula, Caucasus continental collision zone**. Sci. Total Environ., 2021 751, 141806. https://doi.org/10.1016/j.scitotenv.2020.141806

J. Cabassi, S. Venturi, F. Di Bennardo, B. Nisi, F. Tassi, F. Magi, A. Ricci, G. Picchi, O. Vaselli. **Flux measurements of gaseous elemental mercury (GEM) from the geothermal area of "Le Biancane" natural park (Monterotondo Marittimo, Grosseto, Italy): biogeochemical processes controlling GEM emission**. J. Geochem. Exploration, 2021, 106824. https://doi.org/10.1016/j.gexplo.2021.106824

Ze-Rui Ray Liu, Mei-Fu Zhou, Wei Terry Chen, Anthony E. Williams-Jones, Xiang-Dong Li, Run-Sheng Yin, Hugh O'Brien, Yann Lahaye. **Mercury and sulfur isotopic evidence for the linkages between the ca. 510 Ma Kalkarindji large igneous province and trilobite crisis**. Earth and Planetary Science Letters, 2021, 566, 116947. https://doi.org/10.1016/j.epsl.2021.116947

Guangyou Zhu, Pengju Wang, Tingting Li, Kun Zhao, Wang Zheng, Xinbin Feng, Jun Shen, Stephen E. Grasby, Guangyi Sun, Shunlin Tang, Huihui Yan. **Mercury record of intense hydrothermal activity during the early Cambrian, South China**. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 568, 2021, 110294. https://doi.org/10.1016/j.palaeo.2021.110294

Sial AN, Chen J, Korte C, Pandit MK, Spangenberg JE, Silva-Tamayo JC, Lacerda LDde, Ferreira VP, Barbosa JA, Gaucher C, Pereira NS and Riedel PR. **Hg Isotopes and Enhanced Hg Concentration in the Meishan and Guryul Ravine Successions: Proxies for Volcanism Across the PermianTriassic Boundary**. Front. Earth Sci., 2021, 9:651224. https://doi.org/10.3389/feart.2021.651224

Jing Lu, Ye Wang, Minfang Yang, Longyi Shao, Jason Hilton. **Records of volcanism and organic carbon isotopic composition ($\delta^{13}C_{org}$) linked to changes in atmospheric pCO_2 and climate during the Pennsylvanian icehouse interval**. Chemical Geology, 2021, 570, 120168. https://doi.org/10.1016/j.chemgeo.2021.120168

Pérez-Martínez, I., Villanueva-Estrada, R.E., Rodríguez-Díaz, A.A., Canet, C., García, R., Ramos-Leal, et al. **Diffuse gases in soil of Araró-Simirao geothermal system, Michoacán, Mexico**. Andean Geology, 2021, 48(3), 496-513

Jing Lu, Ye Wang, Minfang Yang, Longyi Shao, Jason Hilton. **Records of volcanism and organic carbon isotopic composition (δ13Corg) linked to changes in atmospheric pCO2 and climate during the Pennsylvanian icehouse interval.** Chemical Geology, 2021, 570, 120168. https://doi.org/10.1016/j.chemgeo.2021.120168

2020

B. Schiavo, O. Morton-Bermea, E. Salgado-Martinez, J. Arellano, E. Hernández-Álvarez. **Estimates of mercury flux and temporal variability of Hg/SO2 ratio in the plume of Popocatépetl volcano (Mexico).**
April 2020 Journal of South American Earth Sciences 101:102614
https://doi.org/10.1016/j.jsames.2020.102614

E. Bagnato, G. Tamburello, D. Granieri, S. Caliro, F. D'Agostino, R. Avino, F. Capecchiacci, A. Carandente, A. D'Alessandro, C. Minopoli, A. Santi, M. Bitetto, E. Oliveri. **First simultaneous mercury and major volatiles characterization of atmospheric hydrothermal emissions at the Pisciarelli's fumarolic system (Campi Flegrei, Italy)**. Journal of Volcanology and Geothermal Research 406 (2020) 107074. https://doi.org/10.1016/j.jvolgeores.2020.107074

Sun, Y., Guo, Z., Du, J., & Zhao, W. **Diffuse emission and transport of gaseous elemental mercury (GEM) in the Mapamyum geothermal system, Western Tibet (China)**. Journal of Volcanology and Geothermal Research, 2020, 106825. https://doi.org/10.1016/j.jvolgeores.2020.106825

Gerta Keller, Paula Mateo, Johannes Monkenbusch, Nicolas Thibault, Jahnavi Punekar, Jorge E. Spangenberg, Sigal Abramovich, Sarit Ashckenazi-Polivoda, Blair Schoene, Michael P. Eddy, Kyle M. Samperton, Syed F.R. Khadri, Thierry Adatte. **Mercury linked to Deccan Traps volcanism, climate change and the end-Cretaceous mass extinction**. Global and Planetary Change, 2020, 194, 103312. https://doi.org/10.1016/j.gloplacha.2020.103312.

2019

A.L. Gagliano, S. Calabrese, K. Daskalopoulou, J. Cabassi, F. Capecchiacci, F. Tassi, S. Bellomo, L. Brusca, M. Bonsignore, S. Milazzo, G. Giudice, L. Li Vigni, F. Parello, and W. D'Alessandro. **Degassing**

and Cycling of Mercury at Nisyros Volcano (Greece). Geofluids, Vol. 2019. https://doi.org/10.1155/2019/4783514

Lubomir Metodiev, Tanya Stoylkova, Milena Georgieva, Elena Koleva-Rekalova. **Mercury enrichments as a potential tracer for volcanism in sedimentary successions – examples from the Toarcian in Bulgaria**. Review of the Bulgarian Geological Society, 2019, 80(3), 122–124.

2018

E. Bagnato, F. Viveiros, J.E. Pacheco, F. D'Agostino, C. Silva, V. Zanon**. Hg and CO2 emissions from soil diffuse degassing and fumaroles at Furnas Volcano (São Miguel Island, Azores): Gas flux and thermal energy output**. Journal of Geochemical Exploration. 2018. 190, 39–57. https://doi.org/10.1016/j.gexplo.2018.02.017

2017

Charbonnier, G., Morales, C., Duchamp-Alphonse, S. et al. **Mercury enrichment indicates volcanic triggering of Valanginian environmental change**. Sci Rep 7, 40808 (2017). https://doi.org/10.1038/srep40808

J. Cabassi; F. Tassi; S. Venturi; S. Calabrese; F. Capecchiacci; W. D'Alessandro; O. Vaselli. **A new approach for the measurement of gaseous elemental mercury (GEM) and H_2S in air from anthropogenic and natural sources: Examples from Mt. Amiata (Siena, Central Italy) and Solfatara Crater (Campi Flegrei, Southern Italy)**. Journal of Geochemical Exploration, 175, 48-58. https://doi.org/10.1016/j.gexplo.2016.12.017

E. Bagnato, E. Oliveri, A. Acquavita, S. Covelli, E. Petranich, M. Barra, F. Italiano, F. Parello, M. Sprovieri. **Hydrochemical mercury distribution and air-sea exchange over the submarine hydrothermal vents off-shore Panarea Island (Aeolian arc, Tyrrhenian Sea)**. Marine Chemistry, 2017, 194, 63-78. https://doi.org/10.1016/j.marchem.2017.04.003

2016

Tassi, F., Cabassi, J., Calabrese, S., Nisi, B., Venturi, S., Capecchiacci, F., Giannini, L., Vaselli, O. **Diffuse soil gas emissions of gaseous elemental mercury (GEM) from hydrothermal-volcanic systems: an innovative approach by using the static closed chamber method**. Appl. Geochem. 2016, 66, 234–241. https://doi.org/10.1016/j.apgeochem.2016.01.002

2015

Percival L. M. E., Witt M. L. I., Mather T. A., Hermoso M., Jenkyns H. C., Hesselbo S. P., Al-Suwaidi A. H., Storm M. S., Xu W., Ruhl M. **Globally enhanced mercury deposition during the end-Pliensbachian extinction and Toarcian OAE: A link to the Karoo–Ferrar Large Igneous Province**. Earth and Planetary Science Letters, 2015, 428, 267–280. https://doi.org/10.1016/j.epsl.2015.06.064

Jacopo Cabassi. **Gaseous mercury (Hg0) in the former mining area of Abbadia San Salvatore (Mt. Amiata, Siena) and in quiescent and active volcanic areas: distribution in air and comparison with other atmospheric pollutants**. PLINIUS, 2015, 41, 2015

Zhou, X., Chen, Z., & Cui, Y. **Environmental impact of CO2, Rn, Hg degassing from the rupture zones produced by Wenchuan Ms 8.0 earthquake in western Sichuan, China**. Environmental geochemistry and health, 2015, 38(5), 1067-1082. https://doi.org/10.1007/s10653-015-9773-1

2014

Bagnato, E., Barra, M., Cardellini, C., Chiodini, G., Parello, F., & Sprovieri, M. **First combined flux chamber survey of mercury and CO_2 emissions from soil diffuse degassing at Solfatara of Pozzuoli**

crater, Campi Flegrei (Italy): Mapping and quantification of gas release. J. Volcanology and Geothermal Research, 2014, 289, 26–40. https://doi.org/10.1016/j.jvolgeores.2014.10.017

Higueras P., Oyarzun, R., Kotnik J., Esbrí J. M., Martínez-Coronado A., Horvat M., López-Berdonces M. A., Llanos W., Vaselli O., Nisi B., Mashyanov N., Ryzov R., Spiric Z., Panichev N., McCrindle R., Feng X., Fu X., Lillo J., Loredo J., García M. E., Alfonso P., Villegas K., Palacios S., Oyarzún J., Maturana H., Contreras F., Adams M., Ribeiro-Guevara S., Niecenski L. P., Giammanco S., Huremović J. **A compilation of field surveys on gaseous elemental mercury (GEM) from contrasting environmental settings in Europe, South America, South Africa and China: separating fads from facts.** Environ Geochem and Health. 2014, 36, № 4. 713–734. https://doi.org/10.1007/s10653-013-9591-2

2013

Emanuela Bagnato, Giancarlo Tamburello, Alessandro Aiuppa, Mario Sprovieri, George E. Vougioukalakis, Michelle Parks. **Mercury emissions from soils and fumaroles of Nea Kameni volcanic centre, Santorini (Greece)**. Geochemical Journal. 2013 Vol. 47, 437-450. https://doi.org/10.2343/geochemj.2.0263

2012

Martin R.S., Witt M.L.I., Sawyer G.M., Thomas H.E., Watt S.F.L., Bagnato E., Calabrese S., A. Aiuppa, Delmelle P., Pyle D.M., Mather T.A. **Bioindication of volcanic mercury (Hg) deposition around Mt. Etna (Sicily)**. Chemical Geology. 2012. V. 310–311, 12–22. HTTPS://DOI.ORG/10.1016/j.chemgeo.2012.03.022

Mather T. A., Witt M. L. I., Pyle D. M., Quayle B. M., Aiuppa A., Bagnato E., Martin R. S., Sims K. W. W., Edmonds M., Sutton A. J., Ilyinskaya E**. Halogens and trace metal emissions from the ongoing 2008 summit eruption of Kīlauea volcano, Hawai`i**. Geochimica et Cosmochimica Acta, 2012, 83, 292–323. https://doi.org/10.1016/j.gca.2011.11.029

2011

Astakhov, A.S., Ivanov, M.V. & Li, B.Y. **Hydrochemical and atmochemical mercury dispersion zones over hydrothermal vents of the submarine Piip Volcano in the Bering Sea**. Oceanology 51, 826 (2011). https://doi.org/10.1134/S0001437011050031

2010

Martin R. S., Mather T. A., Pyle D. M., Day J. A., Witt M. L. I., Collins S. J., Hilton R. G. **Major and trace element distributions around active volcanic vents determined by analyses of grasses: implications for element cycling and bio-monitoring**. Bulletin of Volcanology, 2010, 72, № 8, 1009–1020. https://doi.org/10.1007/s00445-010-0374-7

2008

M.L.I. Witt, T.P. Fischer, D.M. Pyle, T.F. Yang, G.F. Zellmer. **Fumarole compositions and mercury emissions from the Tatun Volcanic Field, Taiwan: Results from multi-component gas analyser, portable mercury spectrometer and direct sampling techniques**. J. Volcanology and Geothermal Research 178 (2008) 636–643. https://doi.org/10.1016/j.jvolgeores.2008.06.035

M.L.I. Witt, T.A. Mather, D.M. Pyle, A. Aiuppa, E. Bagnato, V.I. Tsanev**. Mercury and halogen emissions from Masaya and Telica volcanoes, Nicaragua**. J. Geophys. Res. 113, B6. 2008. 10.1029/2007JB005401

2007

Aiuppa A., Bagnato E., Witt M. L. I., Mather T. A., Parello F., Pyle D. M., Martin R. S. **Real-time simultaneous detection of volcanic Hg and SO2 at La Fossa Crater, Vulcano (Aeolian Islands, Sicily)**. Geophysical Research Letters, 2007, 34, L21307. https://doi.org/10.1029/2007GL030762

2006

Mark A. Engle, Mae Sexauer Gustin, Fraser Goff, Dale A. Counce, Cathy J. Janik, Deborah Bergfeld, James J. Rytuba. **Atmospheric mercury emissions from substrates and fumaroles associated with three hydrothermal systems in the western United States**. J Geophysical Research, 2006, V. 111, D17304, https://doi.org/10.1029/2005JD006563

Waste management

2026

Cortes, J. E. A., Nait-Kaci, L., & Fatin-Rouge, N. **Comparative study of zero-valent mercury immobilization by solidification/stabilization in a limestone backfill model**. Chemosphere, 2026, 407, 144974. https://doi:10.1016/j.chemosphere.2026.144974

Penalba-Iglesias, D., Robas-Mora, M., González-Reguero, D., Fernández-Pastrana, V. M., Lobo, A. P., & Jiménez-Gómez, P. A. **A novel Bacillaceae bacterium enhances phytoprotection and mercury detoxification in contaminated soils**. Ecotoxicology and Environmental Safety, 2026, 319, 120261. https://doi:10.1016/j.ecoenv.2026.120261

Vaselli, O., Meloni, F., Cabassi, J., Nisi, B., Lazzaroni, M., Bianchi, F., & Rappuoli, D. **Geochemical Characterization of Environmental and Man-Made Matrices for Remediation Operations in the Former Hg Mining and Production Plants of Abbadia San Salvatore (Central Italy)**. Environments, 2026, 13, 220. https://Doi:10.3390/environments13040220

Yang, Z., Hu, Y., Wang, Y., Sun, P., Nie, C., Guo, J., ... & Xu, Y. **Regeneration behavior of sulfur-modified waste-derived sorbents for Hg0 removal: enhanced performance and synergistic mechanism**. Fuel, 2026, 421, 139103. https://doi:10.1016/j.fuel.2026.139103

2025

Johs, A., Mathews, T. J., Brooks, S. C., Xue, J., Minet, A., Kumara, C. I. G., & DiGinto, B. **Evaluation of Technologies to Mitigate the Presence of Gaseous Elemental Mercury in Waste Disposal Containers** (No. ORNL/SPR--2025/4162). Oak Ridge National Laboratory (ORNL), Oak Ridge, TN (United States). 2025. https://doi:10.2172/3019939

Chen, J., Liu, W., Zhang, M., Qin, R., Yang, J., Leng, L., ... & Li, H. **Dry distillation characteristics of deactivated mercury chloride catalyst: Thermal behaviors, kinetics analysis, evolution of volatiles, and transformation of elements**. Journal of Environmental Chemical Engineering, 2026, 122202. https://doi:10.1016/j.jece.2026.122202

Zhou, J., Zhou, J., Li, Q., Lv, P., Bin, Y., Liu, B., & Yang, S. **Selective recovery of Hg2+ in waste acids by copper sulfides as high-pure mercury sulfides for resource utilization: Performance, mechanism, structure-activity relationship and application**. Chemical Engineering Journal, 2025, 164754. https://doi:10.1016/j.cej.2025.164754

Volynkin, S. S., Podolinnaia, V. A., Shuvaeva, O. V., Yurkevich, N. V., Bortnikova, S. B., & Romanova, T. E. **Studying the process of metals and non-metals transfer in a low-temperature gas flow over sulfide tailings materials**. Chemistry and Ecology, 2025, 41(1), 89-99. https://doi:10.1080/02757540.2024.2405718

Wu, X., Xu, Y., Zhao, Z., Zhang, H., & Fei, X. **Upcycled CuS/magnetic slag composites: A circular economy strategy for flue gas mercury remediation.** Chemical Engineering Journal, 2025, 166679. https://doi:10.1016/j.cej.2025.166679

Chen, J., Liu, W., Zheng, W., Zhang, M., Leng, L., Yang, Z., ... & Li, H. **Study on the deactivation mechanism of mercury chloride catalyst employed for polyvinyl chloride production**. Chinese Journal of Chemical Engineering, 2025. https://doi:10.1016/j.cjche.2025.10.006

Wang, M., Fan, Y., Hong, Q., Huang, W., Han, X., Qu, Z., ... & Xu, H. **Speciation Detection Deciphering C_2H_2/Cl-Driven Mercury Escape Mechanisms in PVC Production**. Environmental Science & Technology, 2025. https://doi:10.1021/acs.est.5c13769

Ma, Y., Shi, C., Zhang, X., Hong, Q., Du, J., Zhang, H., ... & Xu, H. **Grafting coupling inverse vulcanization enhances crosslinking density of sulfur-rich copolymers for ultra-fast mercury adsorption: scalable manufacturing, experimental and mechanism**. Separation and Purification Technology, 2025, 379(3), 135159. https://doi:10.1016/j.seppur.2025.135159

Abdulsalam, A. A., Pirman, M., Begenova, D., Kyzas, G. Z., Xia, D., Pham, T. T., ... & Poulopoulos, S. G. **Thiol functionalized kaolin pellets: Development and optimization for mercury ion removal from aqueous solutions**. Applied Clay Science, 2025, 277, 107983. https://doi:10.1016/j.clay.2025.107983

Xing, W., Shi, Y., Alotaibi, S., Wei, L., Guo, X., Sadik, O. A., ... & Zhang, L. **Dark Reduction of Hg (II) by Dissolved Organic Matter Derived from Aging Microplastics: Mechanisms and Implications. Environmental Science & Technology**, 2025, 59(32), 17037-17046. https://doi:10.1021/acs.est.5c07060

Chen, L. Y., Hsu, C. C., Lin, C. L., Lu, M. L., Chiang, H. L., & Chang, M. B. **Mercury flows in a cement plant adopting circular economy policies**. Waste Management, 2025, 202, 114808. https://doi:10.1016/j.wasman.2025.114808

Zhou, J., Zhou, J., Li, Q., Lv, P., Bin, Y., Liu, B., & Yang, S. **Selective recovery of Hg2+ in waste acids by copper sulfides as high-pure mercury sulfides for resource utilization: Performance, mechanism, structure-activity relationship and application**. Chemical Engineering Journal, 2025, 164754. https://doi:10.1016/j.cej.2025.164754

Power, S., Minet, A., Ku, P., Sexton, A., Matson, P. G., Marquardt, J. P., ... & Stevenson, L. M. **The Efficacy and Ecological Impact of Mercury Sorbents on the Physiology and Reproductive Fitness of Daphnia Magna**. 2025, Available at SSRN 5249675. https://doi:10.2139/ssrn.5249675

Abdulazeez, I., Asmaly, H. A., Al-Hamouz, O. C. S., Baig, N., AlAqad, K. M., Raji, M. A., & Ahmed, K. H. **Enhanced mercury removal from wastewater using thiol-functionalized UiO-66-NH 2 MOF: experimental and theoretical insights**. New Journal of Chemistry, 2025, 49(8), 3096-3108. https://doi:10.1039/D4NJ04745A

Rodríguez, R., García-González, H., Hernández, Z., & Pastrana, Á. **Management of construction demolition waste contaminated with mercury**. In Advances in Construction and Demolition Waste Recycling. Woodhead Publishing, 2025, 383-417. https://doi:10.1016/B978-0-443-23962-5.00014-1

Ma, Y., Shi, C., Hong, Q., Du, J., Zhang, H., Zheng, X., ... & Xu, H. **Harnessing graft copolymerization and inverse vulcanization to engineer sulfur-enriched copolymers for the selective uptake of heavy metals**. Separation and Purification Technology, 2025, 131902. https://doi:10.1016/j.seppur.2025.131902

Gomez, F. H., Collivignarelli, M. C., Bellazzi, S., Torres, K. C., Sorlini, S., & Vaccari, M. **Mercury removal from mining wastewater by bioaccumulation and thermal separation in Eichhornia crassipes**. Environmental Science and Pollution Research, 32(2), 798-810. https://doi:10.1007/s11356-024-35770-w

Wu, X., Xu, Y., Liu, L., Chen, C., Xu, Y., Li, C., ... & Zhang, H. **Upcycling of spent battery acid-leaching residue and waste plastic into magnetic-recyclable industrial flue gas DeHg sorbent.** Chemical Engineering Journal, 2025, 160735. https://doi:10.1016/j.cej.2025.160735

Cai, Z., Yang, Q., Han, H., Wang, J., Wang, T., Zhang, Y., ... & Pan, W.P. **Synergistic removal of Hg0, HCl, and SO_2 from flue gas in municipal solid waste incineration by mechanically modified fly ash**. Journal of Environmental Management, 2025, 373, 123652. https://doi:10.1016/j.jenvman.2024.123652

Ma, Y., Shi, C., Hong, Q., Du, J., Zhang, H., Zheng, X., ... & Xu, H. **Harnessing graft copolymerization and inverse vulcanization to engineer sulfur-enriched copolymers for the selective uptake of heavy**

metals. Separation and Purification Technology, 2025, 362, 131902. https://doi:10.1016/j.seppur.2025.131902

Zhou, J., Wang, W., Chang, S., Lv, P., Mei, J., & Yang, S. **Novel Acceleration of Partial Transformation of CuS on Fe2TiO5 to Cu2S for the Selective Adsorption of Hg2+ from Waste Acids: Performance, Kinetics and Mechanism**. Industrial & Engineering Chemistry Research, 2025, 64(5), 2588-2600. https://doi:10.1021/acs.iecr.4c02504

2024

Sánchez, S., Baragaño, D., Gallego, J. R., López-Antón, M. A., Forján, R., & González, A. **Valorization of steelmaking slag and coal fly ash as amendments in combination with Betula pubescens for the remediation of a highly As-and Hg-polluted mining soil**. Science of the Total Environment, 2024, 927, 172297. https://doi:10.1016/j.scitotenv.2024.172297

Živković, I. **Ultra-Efficient Removal of Mercury from Contaminated Water using Selected Phenylimidazole Derivatives**. Water Air Soil Pollut 235, 339, 2024. https://doi.org/10.1007/s11270-024-07184-4

Liu, H., Zhou, J., Li, B., Liu, Z., Zhou, L., & Wang, T. **Revealing the mechanism of structure-electron effect in mechanochemistry-driven CuS-coupled layered g-C_3N_4 Schottky-junction for enhanced demercuration**. Chemical Engineering Journal, 2024, 151807. https://doi.org/10.1016/j.cej.2024.151807

de Souza, J.P.R.; Garnier, J.; Quintarelli, J.M.; de Sousa Tonhá, M.; Roig, H.L.; Seyler, P.; de Souza, J.R. **Adapted Sequential Extraction Protocol to Study Mercury Speciation in Gold Mining Tailings: Implications for Environmental Contamination in the Amazon**. Toxics, 2024, 12, 326. https://doi.org/10.3390/toxics12050326

Viana, L.N., & Saint'Pierre, T.D. **Evaluation of the mobility of toxic elements from fluorescent lamps under acid rain and landfill leachate conditions**. International Journal of Environmental Science and Technology, 2024, 1-16. https://doi.org/10.1007/s13762-024-05505-y

Sánchez, S., Baragaño, D., Gallego, J.R., López-Antón, M.A., Forján, R., & González, A. **Valorization of steelmaking slag and coal fly ash as amendments in combination with Betula pubescens for the remediation of a highly As-and Hg-polluted mining soil**. Science of The Total Environment, 2024, 172297. https://doi.org/10.1016/j.scitotenv.2024.172297

Ma, Y., Shi, C., Du, J., Zhu, Z., Zhang, X., Wang, Q., & Liu, N. **The key role of unsaturated olefin content on polysulfides prepared via inverse vulcanization of waste plant oils for mercury removal from wastewater**. Environmental Science and Pollution Research, 2024, 1-11. https://doi.org/10.1007/s11356-024-32452-5

Lv, P., Chang, S., Hong, Q., Mei, J., & Yang, S. **Outstanding performance of reproducible sulfureted Fe-Ti spinel for the centralized control of Hg (both gaseous Hg0 and aqueous Hg2+) emitted from coal-fired power plants with seawater flue gas desulfurization**. Chemical Engineering Journal, 2024, 483, 148955. https://doi.org/10.1016/j.cej.2024.148955

Lv, P., Chang, S., Qin, R., Zhou, J., Wang, W., Hong, Q., ... & Yang, S. **Different roles of FeS and FeS_2 on magnetic FeSx for the selective adsorption of Hg2+ from waste acids in smelters: Reaction mechanism, kinetics, and structure-activity relationship**. Chemosphere, 2024, 349, 140917. https://doi.org/10.1016/j.chemosphere.2023.140917

Pan, Q., Hong, Q., Fan, Y., Sun, X., Huang, W., Yan, N., ... & Xu, H. **Efficient selective uptake of mercury ions using inverse vulcanization-synthesized sulfur-rich adsorbents**. Separation and Purification Technology, 2024, 333, 125917. https://doi.org/10.1016/j.seppur.2023.125917

2023

Rodríguez, R.; Hernández, Z.; Fernández, B.; Bascompta, M. **A Novel Solution to Avoid Mercury Emissions Produced by Highly Contaminated Demolition Debris in Mining Site**. Environments, 2023, 10(187). https://doi.org/10.3390/environments10110187

Hu, Y., Xu, Y., Zhang, Q., Chen, M., Wang, Y., & Luo, G. (2023). **In situ activation synthesis of tire-derived sorbents for efficient immobilization of elemental mercury from flue gas**. Chemical Engineering Journal, 2023, 476, 146558. https://doi.org/10.1016/j.cej.2023.146558

Aliprandini, P., Junior, A.B.B., Veiga, M.M., Marshall, B.G., Scarazzato, T., & Espinosa, D.C.R. **Evaluation of biosorbents as an alternative for mercury cyanide removal from aqueous solution**. Minerals Engineering, 2023, 204, 108431. https://doi.org/10.1016/j.mineng.2023.108431

Le, H. T., Punurai, W., Zawawi, N. A. W., Yaakob, O. B., Nguyen, N. T. P., Le, T. T., ... & Van Le, S. **A Review of Mercury Waste Management in the ASEAN Oil and Gas Industry**. Journal of Hazardous, Toxic, and Radioactive Waste, 2023, 27(1), 04022044. https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000737

Viana, L. N., & Saint'Pierre, T. D. **Environmental impact assessment of end-of-life fluorescent lamps in Rio de Janeiro, Brazil, under different recycling rate scenarios**. Chemosphere, 2023, 139835. https://doi.org/10.1016/j.chemosphere.2023.139835

Rodríguez, R., Garcia-Gonzalez, H., Pastrana, Á., & Hernández, Z. **Health and Safety Protocol for the Management of Building Demolition Waste with High Mercury Contamination**. Buildings, 2023, 13(5), 1310. https://doi.org/10.3390/buildings13051310

Rodríguez R, Fernández B, Malagón B, Garcia-Ordiales E. **Chemical-Physical Model of Gaseous Mercury Emissions from the Demolition Waste of an Abandoned Mercury Metallurgical Plant**. Applied Sciences, 2023, 13(5):3149. https://doi.org/10.3390/app13053149

Chang, S., Lv, P., Qin, R., Mei, J., Hong, Q., & Yang, S. **Rapid and Selective Removal of Hg2+ by Copper Sulfides under Strongly Acidic Conditions: Mechanism, Kinetics, and Its Application in Recovering Hg from Waste Acids of Smelters**. Industrial & Engineering Chemistry Research, 2023, 62(8), 3567–3576. https://doi.org/10.1021/acs.iecr.2c04460

Kanafin, Y.N., Abdirova, P., Arkhangelsky, E., Dionysiou, D.D., & Poulopoulos, S.G. **UVA and goethite activated persulfate oxidation of landfill leachate**. Chemical Engineering Journal Advances, 2023, 100452. https://doi.org/10.1016/j.ceja.2023.100452

Inglezakis, V.J., Kudarova, A., Guney, A., Kinayat, N., & Tauanov, Z. **Efficient mercury removal from water by using modified natural zeolites and comparison to commercial adsorbents**. Sustainable Chemistry and Pharmacy, 2023, 32, 101017. https://doi.org/10.1016/j.scp.2023.101017

Lee, J.C., Park, S.W., Kim, H.S., Alam, T., & Lee, S.Y. **Oxidation Enhancement of Gaseous Elemental Mercury Using Waste Steel Slag under Various Experimental Conditions**. Sustainability, 2023, 15(2), 1406. https://doi.org/10.3390/su15021406

Chen, H., Zhan, L., Zhou, H., Li, Z., Chen, J., Sun, Z., ... & Yang, L. **Release and migration of Hg during desulfurization wastewater evaporation process: Whole process evaluation by experimental and theoretical study**. Journal of Hazardous Materials, 2023, 443, 130180. https://doi.org/10.1016/j.jhazmat.2022.130180

Chuai, X., Yang, Q., Zhang, T., Xiao, R., Cui, X., Yang, J., ... & Zhang, J. **Migration and control of mercury in hazardous chemical waste incineration**. Fuel, 2023, 334, 126706. https://doi.org/10.1016/j.fuel.2022.126706

C. Du, Z. Li. **Contamination and health risks of heavy metals in the soil of a historical landfill in northern China**. Chemosphere, 2023, 313, 137349. https://doi.org/10.1016/j.chemosphere.2022.137349

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A. et al. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2023, 45(5), 1723-1737. https://doi.org/10.1007/s10653-022-01295-9

2022

Qin, R., Chang, S., Mei, J., Hong, Q., & Yang, S. **Selective removal of Hg2+ from acidic wastewaters using sulfureted Fe_2TiO_5: Underlying mechanism and its application as a regenerable sorbent for recovering Hg from waste acids of smelters**. Water Research, 2022, 221, 118796. https://doi.org/10.1016/j.watres.2022.118796

Siqueira, D., Cesar, R., Lourenço, R., Salomão, A., Marques, M., Polivanov, H., ... & Castilhos, Z. C. **Terrestrial and aquatic ecotoxicity of iron ore tailings after the failure of VALE SA mining dam in Brumadinho (Brazil)**. Journal of Geochemical Exploration,2022, 235, 106954. https://doi.org/10.1016/j.gexplo.2022.106954

Ding, Z., Yang, C., Zhang, H., Mei, J., Wang, J., & Yang, S. **New utilizations of natural $CuFeS_2$ as the raw material of Cu smelting for recovering Hg0 from Cu smelting flue gas**. Fuel, 2022, 126997. https://doi.org/10.1016/j.fuel.2022.126997

Hong, Q., Zhang, X., Zhu, R., Wang, C., Mei, J., & Yang, S. **Resource utilization of natural pyrite (FeS_2) as the tailings after flotation of natural sphalerite (ZnS) for reclaiming high concentrations of gaseous Hg0 from Zn smelting flue gas**. Chemical Engineering Journal, 2022, 427, 131644. https://doi.org/10.1016/j.cej.2021.131644

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A. et al. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2022, 1-15. https://doi.org/10.1007/s10653-022-01295-9

Garcia Gonzalez, H., García-Ordiales, E., & Diez, R.R. **Analysis of the airborne mercury and particulate arsenic levels close to an abandoned waste dump and buildings of a mercury mine and the potential risk of atmospheric pollution**. SN Applied Sciences, 2022, 4(3), 1-10. https://doi.org/10.1007/s42452-022-04964-7

Dobryakova, N. N., Golynets, O. S., Lavrinenko, A. A., Vishnevskaya, E. P., & Epshtein, S. A. **Standard test method for mercury content evaluation in solid mineral fuels**. Limnology and Freshwater Biology, 2022, 1374-1375. https://doi.org/10.31951/2658-3518-2022-A-3-1374

S. Rodríguez-Sánchez, P. Díaz, B. Ruiz, S. González, M. Díaz-Somoano, E. Fuente. **Food industrial biowaste-based magnetic activated carbons as sustainable adsorbents for anthropogenic mercury emissions**. Journal of Environmental Management, 2022, 312, 2022, 114897. https://doi.org/10.1016/j.jenvman.2022.114897

Garcia Gonzalez, H., García-Ordiales, E., & Diez, R. R. **Analysis of the airborne mercury and particulate arsenic levels close to an abandoned waste dump and buildings of a mercury mine and the potential risk of atmospheric pollution**. SN Applied Sciences, 2022, 4(3), 1-10. https://doi.org/10.1007/s42452-022-04964-7

M. Stelling, A. Biezeman, E. Korthagen, G. Verstappen. **On-site detection of mercury**. Netherlands Forensic Institute, Technical Report ISFP-AG-OC-ENV-869173, 2022. https://www.researchgate.net/publication/359134797_On-site_detection_of_mercury

Amponsah, L.O., Sørensen, P.B., Nkansah, M.A., Vorkamp, K., Yevugah, L.L., & Darko, G. **Mercury contamination of two e-waste recycling sites in Ghana: an investigation into mercury pollution at Dagomba Line (Kumasi) and Agbogbloshie (Accra)**. Environ Geochem Health, 2022, 1-15. https://doi.org/10.1007/s10653-022-01295-9

2021

Zhaojun Wang, Lei Wang, Tingting Xiao, Tianle Yu, Xu Li, Zhanhui Tang, Gang Zhang. **Pollution Characteristics and Risk Assessments of Mercury in the Soil of the Main Urban Regions in a Typical Chinese Industrial City: Changchun**. Polish J. Environ. Stud., 2021, 30(4), 3829-3841. https://doi.org/10.15244/pjoes/131051

Wang, Z.; Zhang, Y.; Wang, L.; Li, X.; Zhou, X.; Li, X.; Yan, M.; Lu, Q.; Tang, Z.; Zhang, G.; Wang, D. **Characteristics and Risk Assessments of Mercury Pollution Levels at Domestic Garbage Collection Points Distributed within the Main Urban Areas of Changchun City**. Toxics, 2021, 9, 309. https://doi.org/10.3390/toxics9110309

Li, S., Xu, H., Wang, L., Ji, L., Li, X., Qu, Z., & Yan, N. **Dual-functional sites for selective adsorption of mercury and arsenic ions in [SnS4] 4-/MgFe-LDH from wastewater**. Journal of Hazardous Materials, 2021, 403, 123940.

Esbrí, J.M., Rivera, S., Tejero, J., Higueras, P.L. **Feasibility study of fluorescent lamp waste recycling by thermal desorption**. Environ Sci Pollut Res., 2021. https://doi.org/10.1007/s11356-021-16800-3

Patova, E.N., Kondratenok, B.M., Sivkov, M.D., & Kostrova, S.N. **Water quality of the Vychegda River under the conditions of the receipt of treated wastewater from the pulp and paper industry**. Contemporary Problems of Ecology, 2021, 14(6), 588-605. https://doi.org/10.1134/S1995425521060081

Lin Chang, Yongchun Zhao, Yi Zhang, Xuehai Yu, Zenghua Li, Bengen Gong, Huan Liu, Shuzhou Wei, Hao Wu, Junying Zhang. **Mercury species and potential leaching in sludge from coal-fired power plants**. J. Hazardous Materials, 2021, 403, 123927. https://doi.org/10.1016/j.jhazmat.2020.123927

2020

Lee, E.S., Back, S.K., Mojammal, A.H.M., Seo, Y.C., & Jang, H.N. **Mass balance of mercury in a pilot scale mercury recovery plant using thermal roasting technology**. Atmospheric Pollution Research, 2020, 11(5), 886-893. https://doi.org/10.1016/j.apr.2020.01.017

Aliprandini, P., Veiga, M.M., Marshall, B.G., Scarazzato, T., & Espinosa, D.C. **Investigation of mercury cyanide adsorption from synthetic wastewater aqueous solution on granular activated carbon**. Journal of Water Process Engineering, 2020, 34, 101154. https://doi.org/10.1016/j.jwpe.2020.101154

Masoomi, I., Kamata, H., Yukimura, A., Ohtsubo, K., Schmid, M.O., & Scheffknecht, G. **Investigation on the behavior of mercury across the flue gas treatment of coal combustion power plants using a lab-scale firing system**. Fuel Processing Technology, 2020, 201, 106340. https://doi.org/10.1016/j.fuproc.2020.106340

2019

Liu, Zhilou; Wang, Dongli; Yang, Shu; Liu, Hui; Liu, Cao; Xie, Xiaofeng; Xu, Zhifeng. **Selective recovery of mercury from high mercury-containing smelting wastes using an iodide solution system**. Journal of Hazardous Materials, 2019, 363, 179-186. https://doi.org/10.1016/j.jhazmat.2018.09.001

Back, S.K., Mojammal, A.H. M., Kim, J.H., Kim, Y.H., Seok, K.S., & Seo, Y.C. **Mercury distribution analyses and estimation of recoverable mercury amount from byproducts in primary metal**

production facilities using UNEP toolkit and on-site measurement. Journal of Material Cycles and Waste Management, 2019, 21(4), 915-924. https://doi.org/10.1007/s10163-019-00851-3

Lee, E.S., Back, S.K., Sung, J.H., Mojammal, A.H. M., Lee, J. C., Kim, J.H., & Seo, Y.C. **Leaching Characteristics of Mercury Waste and Prediction of Long-Term Leaching Behaviour**. In Waste Valorisation and Recycling, Springer, Singapore, 2019, 143-146. https://doi.org/10.1007/978-981-13-2784-1_13

Tauanov, Z., Tsakiridis, P.E., Shah, D., & Inglezakis, V.J. **Synthetic sodalite doped with silver nanoparticles: Characterization and mercury (II) removal from aqueous solutions**. Journal of Environmental Science and Health, 2019, Part A, 54(9), 951-959. https://doi.org/10.1080/10934529.2019.1611129

2018

Shuang Bian, Jiawen Wu, Yongsheng Zhang, Tao Wang, Pauline Norris, and Wei-Ping Pan. **Increasing Recovery Ratios with an Improved European Community Bureau of Reference Method for Mercury Analysis in Flue Gas Desulfurization Gypsum**. Energy Fuels, 2018, 32, 8, 8340–8347. https://doi.org/10.1021/acs.energyfuels.8b0182

Lecler, M. T., Zimmermann, F., Silvente, E., Masson, A., Morèle, Y., Remy, A., & Chollot, A. **Improving the work environment in the fluorescent lamp recycling sector by optimizing mercury elimination**. Waste Management, 2018, 76, 250-260. https://doi.org/10.1016/j.wasman.2018.02.037

Kim, S., Eom, Y., & Lee, T.G. **Survey of the mercury-containing wastes released from various sources in Korea**. Journal of industrial and engineering chemistry, 2018, 61, 288-294. https://doi.org/10.1016/j.jiec.2017.12.026

2017

Lee, W. R., Eom, Y., & Lee, T. G. **Mercury recovery from mercury-containing wastes using a vacuum thermal desorption system**. Waste Management, 2017, 60, 546-551. https://doi.org/10.1016/j.wasman.2016.12.017

Wilson, E., Lafferty, J. S., Thiboldeaux, R., Tomasallo, C., Grajewski, B., Wozniak, R., & Meiman, J. **Occupational mercury exposure at a fluorescent lamp recycling facility—Wisconsin, 2017**. Morbidity and Mortality Weekly Report, 2018, 67(27), 763

Dou, W., Zhou, Z., Ye, J., Huang, R., Jiang, L.M., Chen, G., & Fei, X. **Reusing effluent of flue gas desulfurization wastewater treatment process as an economical calcium source for phosphorus removal**. Water Science and Technology, 2017, 76(6), 1429-1435. https://doi.org/10.2166/wst.2017.336

2016

Xu, Jianling; Wang, Hanxi; Liu, Yuanyuan; Ma, Mengchao; Zhang, Tian; Zheng, Xiaoxue; Zong, Meihan. **Ecological risk assessment of heavy metals in soils surrounding oil waste disposal areas**. Environmental Monitoring and Assessment, 2016, 188(2). https://doi.org/10.1007/s10661-016-5093-x

2015

Bogans, E., Skudra, J., Svagere, A., & Gavare, Z. **Analysis of Mercury Pollution in Air in Urban Area of Riga Using Atomic Absorption Spectrometry**. In: Sustainable Development, Knowledge Society and Smart Future Manufacturing Technologies, 2015, 219-228. Springer, Cham. https://doi.org/10.1007/978-3-319-14883-0_15

Baatartsol, D., Suvd, D., Ser-Od, H., Battuvshin, B., Oyu, T., Och, G., ... & Unursaikhan, S. **A study of mercury determination in the waste storage area of health care organizations in Ulaanbaatar City**. In Applied Mechanics and Materials, 2015, 768, 220-224. https://doi.org/10.4028/www.scientific.net/AMM.768.220

2014

Back, S. K., Sung, J. H., Seo, Y. C., Kim, K. H., & Kim, Y. L. **Thermal Degradation Characteristics of Mercury from Industrial Sludge**. Journal of Korea Society of Waste Management, 2014, 31(3):300-306. https://doi.org/10.9786/kswm.2014.31.3.300

Cho, J.H., Eom, Y., & Lee, T.G. **Stabilization/solidification of mercury-contaminated waste ash using calcium sodium phosphate (CNP) and magnesium potassium phosphate (MKP) processes**. Journal of hazardous materials, 2014, 278, 474-482. https://doi.org/10.1016/j.jhazmat.2014.06.026

Chen C., Liu S., Gao Y., Liu Y. **Investigation on mercury reemission from limestone-gypsum wet flue gas desulfurization slurry**. The Scientific World Journal, 2014, 2014, Article ID 581724. https://doi.org/10.1155/2014/581724

2013

Cho, J.H., Eom, Y., Park, J.M., Lee, S.B., Hong, J.H., & Lee, T.G. **Mercury leaching characteristics of waste treatment residues generated from various sources in Korea**. Waste management,2013, 33(7), 1675-1681. https://doi.org/10.1016/j.wasman.2013.04.004

Zhu W., Sommar J., Li Z., Feng X., Lin C. J., Li G. **Highly elevated emission of mercury vapor due to the spontaneous combustion of refuse in a landfill**. Atmospheric Environment, 2013, 79, 540–545. https://doi.org/10.1016/j.atmosenv.2013.07.016

2012

Alpert G. D., Herman-Haase H., Roberts M. **A field method for the detection of elemental mercury in sink traps**. J. Chemical Health & Safety, 2012, 19(2), 22–26. https://doi.org/10.1016/j.jchas.2011.06.003

Baek, S. K., Jung, S. J., Sung, J. H., Bhatta, D., Kang, N. Y., Seo, Y. C., & Kim, J. H. **A Study on Thermal Characteristics of Mercury in Sludge Waste**. In: Proc. Annual Conference of Japan Society of Material Cycles and Waste Management Proceedings of the 23rd Annual Conference of Japan Society of Material Cycles and Waste Management, 2012. Japan Society of Material Cycles and Waste Management. https://doi.org/10.14912/jsmcwm.23.0_633

Lollobrigida de Souza, J. P. B., Nozawa, S. R., & Honda, R. T. **Improper waste disposal of silver-mercury amalgam**. Bulletin of environmental contamination and toxicology, 2012? 88(5), 797-801. https://doi.org/10.1007/s00128-012-0554-6

2011

Lee, T. G., Eom, Y., Lee, C. H., & Song, K. S. **Stabilization and solidification of elemental mercury for safe disposal and/or long-term storage**. Journal of the Air & Waste Management Association, 2011, 61(10), 1057-1062.

2010

Kolesnikov S.P., Rubinskaya T.Ya., Strel'tsova E.D., Leonova M.Yu., Korshevets I.K., Zykov A.M., Anichkov S.N. **Distribution of mercury in the combustion products of coal dust in boilers with liquid slag removal**. Solid Fuel Chemistry, 2010, 44, 1, 50–55. https://doi.org/10.3103/S0361521910010106