



PRODUCTS | APPLICATIONS | SUPPORT



Lumex Instruments

CAPEL® CAPILLARY ELECTROPHORESIS SYSTEMS

List of selected publications. 2000–2017

2000

Shi X., Fan R., Zhang Y., Gu J., Fu R. **Synthesis and characterization of water-soluble carboxymethylcyclodextrin polymer as capillary electrophoresis chiral selector** // Chinese Chemical Letters. – 2000. – V. 11. – No. 1. – P. 69–70. URL: http://d.g.wanfangdata.com.cn/Periodical_zghxkb200001024.aspx

2002

Komarova N. V., Kartsova L. A. **Optimizing separation conditions for chlorophenoxycarboxylic acid herbicides in natural and potable water using capillary zone electrophoresis** // Journal of Analytical Chemistry. – 2002. – V. 57. – No. 7. – P. 644–650. doi:[10.1023/A:1016294404942](https://doi.org/10.1023/A:1016294404942)

Marziali E., Raggi M. A., Komarova N., Kenndler E. **Octakis-6-sulfato- γ -cyclodextrin as additive for capillary electrokinetic chromatography of dibenzozepines: carbamazepine, oxcarbamazepine and their metabolites** // Electrophoresis. – 2002. – V. 23. – No. 17. – P. 3020–3026. doi:[10.1002/1522-2683\(200209\)23:17<3020::AID-EELPS3020>3.0.CO;2-#](https://doi.org/10.1002/1522-2683(200209)23:17<3020::AID-EELPS3020>3.0.CO;2-#)

2003

Ivanova M., Piunti A., Marziali E., Komarova N., Raggi M. A., Kenndler E. **Microemulsion electrokinetic chromatography applied for separation of levetiracetam from other antiepileptic drugs in polypharmacy** // Electrophoresis. – 2003. – V. 24. – No. 6. – P. 992–998. doi:[10.1002/elps.200390143](https://doi.org/10.1002/elps.200390143)

Kartsova L. A., Komarova N. V. **Influence of α - and β -cyclodextrins on the separation of positional isomers of benzoic acid nitro, amino, chloro, and hydroxy derivatives by capillary electrophoresis** // Journal of Analytical Chemistry. – 2003. – V. 58. – No. 10. – P. 972–978. doi:[10.1023/A:1026187919126](https://doi.org/10.1023/A:1026187919126)

Kharitonova T. V., Rudnev A. V., Ivanova N. I. **Quantitative determination of cationic and nonionic surfactants in aqueous solutions of their mixtures by capillary zone electrophoresis** // Colloid Journal. – 2003. – V. 65. – No. 2. – P. 244–247. doi:[10.1023/A:1023385612778](https://doi.org/10.1023/A:1023385612778)

Komarova N. V., Kartsova L. A. **Determination of herbicides of the chlorophenoxycarboxylic acid type in natural and drinking water by capillary**

zone electrophoresis // Russian Journal of Applied Chemistry. – 2003. – V. 76. – No. 2. – P. 238–243. doi:[10.1023/A:1024646411409](https://doi.org/10.1023/A:1024646411409)

Komarova N. V., Kartsova L. A. **Determination of s-triazine herbicides by micellar electrokinetic chromatography using sodium dodecyl sulfate** // Journal of Analytical Chemistry. – 2003. – V. 58. – No. 8. – P. 785–789. doi:[10.1023/A:1025099930530](https://doi.org/10.1023/A:1025099930530)

Koudelková M., Jedináková-Křížová V. **Capillary electrophoretic and thin-layer chromatographic characterization of rhenium complexation with 1-hydroxyethylidenediphosphonic acid** // Journal of Chromatography A. – 2003. – V. 990. – No. 1–2. – P. 317–323. doi:[10.1016/S0021-9673\(02\)01798-3](https://doi.org/10.1016/S0021-9673(02)01798-3)

Li F., Zhou D., Guo X. **Study on the protein binding of ketoprofen using capillary electrophoresis frontal analysis compared with liquid chromatography frontal analysis** // Journal of Chromatographic Science. – 2003. – V. 41. – No. 3. – P. 137–141. doi:[10.1093/chromsci/41.3.137](https://doi.org/10.1093/chromsci/41.3.137)

Manaenkov O. V., Sidorov A. I., Sul'man É. M. **Quantitative determination of metronidazole by capillary band electrophoresis with UV detection** // Pharmaceutical Chemistry Journal. – 2003. – V. 37. – No. 11. – P. 612–613. doi:[10.1023/B:PHAC.0000016076.03229.67](https://doi.org/10.1023/B:PHAC.0000016076.03229.67)

Manaenkov O. V., Sidorov A. I., Sul'man É. M. **Rapid determination of amino acids by capillary electrophoresis without preliminary derivatization** // Journal of Analytical Chemistry. – 2003. – V. 58. – No. 10. – P. 979–982. doi:[10.1023/A:1026140003197](https://doi.org/10.1023/A:1026140003197)

Markova O. I., Nikitina T. G., Krasheninnikov A. A., Andreev V. P. **Separation of heavy metal cations in electrophoretically mediated microanalysis** // Journal of Analytical Chemistry. – 2003. – V. 58. – No. 7. – P. 650. doi:[10.1023/A:1024719028055](https://doi.org/10.1023/A:1024719028055)

Pirogov A. V., Shpak A. V., Shpigun O. A. **Application of polyelectrolyte complexes as novel pseudo-stationary phases in MEKC** // Analytical and Bioanalytical Chemistry. – 2003. – V. 375. – No. 8. – P. 1199–1203. doi:[10.1007/s00216-003-1812-6](https://doi.org/10.1007/s00216-003-1812-6)

Pirogov A. V., Stepanov K. V., Shpigun O. A. **Changing the electrophoretic mobility of phenols using ionenes as additives in the buffer electrolyte** // Journal of Analytical Chemistry. – 2003. – V. 58. – No. 5. – P. 478–484. doi:[10.1023/A:1024086316240](https://doi.org/10.1023/A:1024086316240)

Porras S. P., Marziali E., Gaš B., Kenndler E. **Influence of solvent on temperature and thermal peak broadening in capillary zone electrophoresis** // Electrophoresis. – 2003. – V. 24. – No. 10. – P. 1553–1564. doi:10.1002/elps.200305437

Shpak A. V., Pirogov A. V., Shpigun O. A. **Determination of amino acids by capillary electrophoresis without preliminary derivatization** // Journal of Analytical Chemistry. – 2003. – V. 58. – No. 7. – P. 649. doi:10.1023/A:1024714927146

2004

Budanova N., Shapovalova E., Lopatin S., Varlamov V., Shpigun O. **Heptakis(6-amino-6-deoxy)- β -cyclodextrin as a chiral selector for the separation of anionic analyte enantiomers by capillary electrophoresis** // Electrophoresis. – 2004. – V. 25. – No. 16. – P. 2795–2800. doi:10.1002/elps.200405970

Cao Y. H., Wang Y., Yuan Q. **Analysis of flavonoids and phenolic acid in propolis by capillary electrophoresis** // Chromatographia. – 2004. – V. 59. – No. 1–2. – P. 135–140. doi:10.1365/s10337-003-0138-z

Chernovyants M. S., Simonyan S. S. **Electrophoretic separation and quantitative determination of halides and iodohalides of the choline series** // Journal of Analytical Chemistry. – 2004. – V. 59. – No. 6. – P. 571–572. doi:10.1023/B:JANC.0000030881.73183.4b

Kartsova L. A., Bessonova E. A., Sidorova A. A., Kazakov V. A., Tveryanovich I. A., Velikanova L. I. **Determination of catecholamines by capillary electrophoresis-mass spectrometry** // Russian Journal of Applied Chemistry. – 2004. – V. 77. – No. 7. – P. 1150–1155. doi:10.1023/B:RJAC.0000044165.62665.85

Kharitonova T., Ivanova N., Rudnev A. **Capillary zone electrophoresis for surfactant analysis in aqueous media** // Progress in Colloid and Polymer Science. – 2004. – V. 125. – P. 184–188. doi:10.1007/b13435

Komarova N. V., Kamentsev J. S., Solomonova A. P., Anufrieva R. M. **Determination of amino acids in fodders and raw materials using capillary zone electrophoresis** // Journal of Chromatography B. – 2004. – V. 800. – No. 1–2. – P. 135–143. doi:10.1016/j.jchromb.2003.08.052

Komarova N. V., Kartsova L. A. **Factors responsible for the electrophoretic behavior of carboxylic acid and triazine derivatives under conditions of capillary zone electrophoresis and micellar electrokinetic chromatography** // Journal of Analytical Chemistry. – 2004. – V. 59. – No. 7. – P. 662–668. doi:10.1023/B:JANC.0000035280.05830.a7

Medvedeva O. M., Kurakina V. S., Dmitrienko S. G., Tikhomirova T. I., Shpigun O. A. **Separation and determination of phenolcarboxylic acids by capillary zone electrophoresis with dynamic preconcentration on hypercrosslinked polystyrene** // Journal of Analytical Chemistry. – 2004. – V.

59. – No. 7. – P. 669–676. doi:10.1023/B:JA NC.0000035281.21489.16

Patsovskii A. P., Rudometova N. V., Kamentsev Ya. S. **Electrophoretic determination of synthetic dyes in alcoholic beverages** // Journal of Analytical Chemistry. – 2004. – V. 59. – No. 2. – P. 150–154. doi:10.1023/B:JANC.0000014742.00764.0b

Vinsona H., Konirova R., Koudelkova M., Jedinakova-Krizova V. **Sorption of technetium and rhenium on natural sorbents under aerobic conditions** // Journal of Radioanalytical and Nuclear Chemistry. – 2004. – V. 261. – No. 2. – P. 407–413. doi:10.1023/B:JRNC.0000034878.72774.53

Zhang L., Liu Y., Chen G. **Simultaneous determination of allantoin, choline and L-arginine in Rhizoma Dioscoreae by capillary electrophoresis** // Journal of Chromatography A. – 2004. – V. 1043. – No. 2. – P. 317–321. doi:10.1016/j.chroma.2004.06.003

2005

Bekasova O. D., Brekhovskikh A. A., Brykina G. D., Dubinchuk B. T., Mochalova V. S., Kotel'nikov A. S. **R-Phycoerythrin: A natural ligand for detoxifying cadmium ions and a tunnel matrix for synthesis of cadmium sulfide nanoparticles** // Applied Biochemistry and Microbiology. – 2005. – V. 41. – No. 3. – P. 269–274. doi:10.1007/s10438-005-0046-0

Größl M., Harrison S., Kaml I., Kenndler E. **Characterisation of natural polysaccharides (plant gums) used as binding media for artistic and historic works by capillary zone electrophoresis** // Journal of Chromatography A. – 2005. – V. 1077. – No. 1. – P. 80–89. doi:10.1016/j.chroma.2005.04.075

Kharitonova T. V., Ivanova N. I., Summ B. D. **Adsorption of cationic and nonionic surfactants on a SiO₂ surface from aqueous solutions: 2. Adsorption of dodecylpyridinium bromide and Triton X-100 from mixed solutions** // Colloid Journal. – 2005. – V. 67. – No. 2. – P. 249–255. doi:10.1007/s10595-005-0088-2

Rudnev A. V., Alekseenko S. S., Semenova O., Hartinger Chr. G., Timerbaev A. R., Keppler B. K. **Determination of binding constants and stoichiometries for platinum anticancer drugs and serum transport proteins by capillary electrophoresis using the Hummel-Dreyer method** // Journal of Separation Science. – 2005. – V. 28. – No. 2. – P. 121–127. doi:10.1002/jssc.200401930

Timerbaev A. R., Rudnev A. V., Semenova O., Hartinger Ch. G., Keppler B. K. **Comparative binding of antitumor indazolium [trans-tetrachlorobis(1H-indazole)ruthenate(III)] to serum transport proteins assayed by capillary zone electrophoresis** // Analytical Biochemistry. – 2005. – V. 341. – No. 2. – P. 326–333. doi:10.1016/j.ab.2005.03.020

Wei F., Fan Y., Zhang M., Feng Y.-Q. **Poly(methacrylic acid-ethylene glycol dimethacrylate) monolith in-tube solid-phase microextraction applied to**

simultaneous analysis of some amphetamine derivatives in urine by capillary zone electrophoresis
// Electrophoresis. – 2005. – V. 26. – No. 16. – P. 3141–3150. doi:10.1002/elps.200500043

Wei F., Liu S.-M., Xu L., Cheng G.-Z., Wu C.-T., Feng Y.-Q. **The formation of cucurbit[*n*]uril (*n* = 6, 7) complexes with amino compounds in aqueous formic acid studied by capillary electrophoresis**
// Electrophoresis. – 2005. – V. 26. – No. 11. – P. 2214–2224. doi:10.1002/elps.200410260

Wang L. C., Cao Y. H., Xing X. P., Ye J. N. **Fingerprint studies of *Radix Scutellariae* by capillary electrophoresis and high performance liquid chromatography** // Chromatographia. – 2005. – V. 62. – No. 5–6. – P. 283–288. doi:10.1365/s10337-005-0624-6

2006

Kartsova L. A., Ganzha O. V. **Electrophoretic separation of tea flavanoids in the modes of capillary (zone) electrophoresis and micellar electrokinetic chromatography** // Russian Journal of Applied Chemistry. – 2006. – V. 79. – No. 7. – P. 1110–1114. doi:10.1134/S1061934806010035

Mazanek M., Kaml I., Kenndler E. **Capillary electrophoresis: an alternative to chromatography for analysis of natural organic binders** // Studies in Conservation. – 2006. – V. 51. – No. 2. – P. 139–151. URL <http://www.jstor.org/stable/20619437>

Morosanova E., Fomina S., Zolotov Yu., Christian G. D. **Electrophoretically mediated microanalysis based on azocoupling reaction for determination of phenols** // Jordan Journal of Chemistry. – 2006. – V. 1. – No. 1. – P. 75–84. URL <http://repository.yu.edu.jo/bitstream/handle/123456789/552885/Vol1No1-9.pdf?sequence=1>

Pankratova L. N., Rudnev A. V. **Radiation-chemical processes in polyorganosiloxanes** // High Energy Chemistry. – 2006. – V. 40. – No. 3. – P. 154–157. doi:10.1134/S0018143906030052

Rudnev A. V., Dzherayan T. G. **Determination of polyhexamethyleneguanidine by capillary electrophoresis** // Journal of Analytical Chemistry. – 2006. – V. 61. – No. 10. – P. 1002–1006. doi:10.1134/S1061934806100091

Rudnev A. V., Fotieva L. S., Kowol Chr., Berger R., Jakupec M. A., Arion V. B., Timerbaev A. R., Keppler B. K. **Preclinical characterization of anticancer gallium(III) complexes: Solubility, stability, lipophilicity and binding to serum proteins** // Journal of Inorganic Biochemistry. – 2006. – V. 100. – No. 11. – P. 1819–1826. doi:10.1016/j.jinorgbio.2006.07.003

Stepanov K. V., Pirogov A. V., Shpigun O. A. **Identification of the electrophoretic peaks of the phenylthiohydantoin derivatives of amino acids** // Journal of Analytical Chemistry. – 2006. – V. 61. – No. 1. – P. 6–13. doi:10.1134/S1061934806010035

Wang Y. L., Hu Z. B., Yuan Z. B. **Ionic liquid and HP-β-CD modified capillary zone electrophoresis to**

separate hyperoside, luteolin and chlorogenic acid
// Chinese Chemical Letters. – 2006. – V. 17. – No. 2. – P. 231–234. URL: <http://www.cnki.com.cn/Article/CJFDTOTAL-FXKB200602026.htm>

Xiao Y., Mei J., He X., Cheng W. **Fractionation and high performance capillary electrophoretic analysis of phospholipids** // Chinese Journal of Chromatography. – 2006. – V. 24. – No. 1. – P. 30–34. doi:10.1016/S1872-2059(06)60003-5

Zhang M., Wei F., Zhang Y. F., Nie J., Feng Y. Q. **Novel polymer monolith microextraction using a poly(methacrylic acid-ethylene glycol dimethacrylate) monolith and its application to simultaneous analysis of several angiotensin II receptor antagonists in human urine by capillary zone electrophoresis** // Journal of Chromatography A. – 2006. – V. 1102. – No. 1–2. – P. 294–301. doi:10.1016/j.chroma.2005.10.057

2007

Chernov'yants M. S., Khokhlov E. V., Lykova E. O., Dolinkin A. O. **Electrophoretic determination of 1-methyl-2-mercaptoimidazole in the pharmaceutical preparation mercazolyl** // Journal of Analytical Chemistry. – 2007. – V. 62. – No. 3. – P. 263–265. doi:10.1134/S1061934807030124

Demidova M. G., Bulavchenko A. I. **Spectrophotometric determination of sodium dodecyl sulfate with preconcentration by reversed micelles of Triton N-42** // Journal of Analytical Chemistry. – 2007. – V. 62. – No. 1. – P. 31–36. doi:10.1134/S1061934807010078

Gavrilin M. V., Senchenko S. P., Gusov R. M. **Quantitative determination of vitexin-2-O-rhamnoside in common oats using HPLC and capillary electrophoresis** // Pharmaceutical Chemistry Journal. – 2007. – V. 41. – No. 7. – P. 396–398. doi:10.1007/s11094-007-0085-3

Liu H., Gao Y. **Determination of active components in Chinese medicinal preparations by capillary electrophoresis** // Central European Journal of Chemistry. – 2007. – V. 51. – No. 1. – P. 221–229. doi:10.2478/s11532-006-0059-4

Kartsova L. A., Popova A. M., Sidorova A. A., Markova O. I. **Evaluation of the stability constants of acidic and basic organic substances with 18-crown-6 and β-cyclodextrin using capillary zone electrophoresis** // Journal of Analytical Chemistry. – 2007. – V. 62. – No. 2. – P. 179–183. doi:10.1134/S1061934807020141

Kartsova L. A., Strel'nikova E. G. **Determination of endo- and exogenous corticosteroids by cyclodextrin-modified micellar electrokinetic chromatography with the use of on-line preconcentration** // Journal of Analytical Chemistry. – 2007. – V. 62. – No. 8. – P. 716–720. doi:10.1134/S1061934807080035

Kozlowska J., Kozlowski C. A., Koziol J. J. **Transport of Zn(II), Cd(II), and Pb(II) across CTA plasticized membranes containing organophosphorous acids**

- as an ion carriers // Separation and Purification Technology.** – 2007. – V. 57. – No. 3. – P. 430–434. doi:10.1016/j.seppur.2006.04.011
- Liu X., Shi X.-A., Wang H., Guo Y., Meng C. **Application of capillary electrophoresis using discontinuous buffer system in bovine serum albumin analysis//** Science Paper Online. – 2007. – No. 12. – P. 930–933. URL [http://www.paper.edu.cn/uploads/journal/2008/028/1673-7180\(2007\)12-0930-04.pdf](http://www.paper.edu.cn/uploads/journal/2008/028/1673-7180(2007)12-0930-04.pdf)
- Martello R., Kolivoska V., Raggi M. A., Kenndler E. **CE of tricyclic antidepressant clomipramine and metabolites: Electromigration and wall adsorption //** Electrophoresis. – 2007. – V. 28. – No. 20. – P. 3650–3657. doi:10.1002/elps.200700121
- Molina M. C., Cardeno A. V., Martinez J. R. M., Stashenko E. E. **Caracterizacion de compuestos fenolicos por electroforesis capilar de la especie *Phyllanthus acuminatus* (Euphorbiaceae) y estudio de su actividad antioxidante //** Scientia et Technica. – 2007. – Ano XIII. – No. 33. – P. 173–175. (In Spanish). URL <http://redalyc.uaemex.mx/redalyc/pdf/849/84903341.pdf>
- Rozhnova S. A., Gavrilin M. V., Senchenko S. P., Krikova A. B. **Use of capillary electrophoresis in studies of the pharmacokinetics of amlodipine besylate //** Pharmaceutical Chemistry Journal. – 2007. – V. 41. – No. 8. – P. 444–446. doi:10.1007/s11094-007-0097-z
- Timerbaev A. R., Foteva L. S., Rudnev A. V., Abramski J. K., Połec-Pawlak K., Hartinger Chr. G., Jarosz M., Keppler B. K. **Probing the stability of serum protein-ruthenium(III) drug adducts in the presence of extracellular reductants using CE //** Electrophoresis. – 2007. – V. 28. – No. 13. – P. 2235–2240. doi:10.1002/elps.200600707
- Timerbaev A. R., Vasylenko O. O., Foteva L. S., Rudnev A. V., Semenova O., Keppler B. K. **Application of micellar and microemulsion electrokinetic chromatography for characterization of gallium(III) complexes of pharmaceutical significance //** Journal of Separation Science. – 2007. – V 30. – No. 3. – P. 399–406. doi:10.1002/jssc.200600305
- Wei F., Zhang M., Feng Y.-Q. **Combining poly (methacrylic acid-co-ethylene glycol dimethacrylate) monolith microextraction and on-line pre-concentration-capillary electrophoresis for analysis of ephedrine and pseudoephedrine in human plasma and urine //** Journal of Chromatography B. – 2007. – V. 850. – No. 1–2. – P. 38–44. doi:10.1016/j.jchromb.2006.10.060
- ## 2008
- Broncová G., Shishkanova T. V., Krondak M., Volf R., Král V. **Optimization of poly(neutral) coated-wire electrode for determination of citrate in soft drinks //** Sensors. – 2008. – V. 8. – No. 2. – P. 594–606. URL <http://mdpi.net/sensors/papers/s8020594.pdf>
- Chernov'yants M. S., Burykin I. V., Aleshina N. V. **Electrophoretic and spectrophotometric determination of triiodides of sulfur-containing organic cations //** Journal of Analytical Chemistry. – 2008. – V. 63. – No. 7. – P. 680–683. doi:10.1134/S1061934808070137
- Chernov'yants M. S., Dolinkin A. O., Braslavskaya I. V. **Chromatographic determination of 6-substituted 2-thiouracyls, thyreostatic preparations //** Journal of Analytical Chemistry. – 2008. – V. 63. – No. 9. – P. 848–851. doi:10.1134/S1061934808090086
- Fakhari A. R., Nojavan S., Haghgoor S., Mohammadi A. **Development of a stability-indicating CE assay for the determination of amlodipine enantiomers in commercial tablets //** Electrophoresis. – 2008. – V. 29. – No. 22. – P. 4583–4592. doi:10.1002/elps.200800330
- Foteva L. S., Stolyarova N. V., Timerbaev A. R., Keppler B. K. **Capillary electrophoretic assay for the stability of tris(8-quinolinolato)gallium(III) in tablet formulations //** Journal of Pharmaceutical and Biomedical Analysis. – 2008. – V. 48. – No. 1. – P. 218–222. doi:10.1016/j.jpba.2008.05.017
- Kartsova L. A., Kas'yanenko N. A., Alekseeva A. V., Ganzha O. V., Paston S. V., Ershov D. S. **Electrophoretic determination of catechins and examination of their complexing with organic and inorganic compounds //** Russian Journal of Applied Chemistry. – 2008. – V. 81. – No. 10. – P. 1758–1763. doi:10.1134/S1070427208100108
- Kartsova L. A., Alekseeva A. V. **Effect of milk caseins on the concentration of polyphenolic compounds in tea //** Journal of Analytical Chemistry. – 2008. – V. 63. – No. 11. – P. 1107–1111. doi:10.1134/S1061934808110154
- Kozlowski C. A., Walkowiak W., Girek T. **Modified cyclodextrin polymers as selective ion carriers for Pb(II) separation across plasticized membranes //** Journal of Membrane Science. – 2008. – V. 310. – No. 1. – P. 312–320. doi:10.1016/j.memsci.2007.11.004
- Kucher A., Parastayeva M., Zubina I., Beresneva O., Ivanova G., Kayukov I. **The influence of low-protein soy-bean diet on the level of blood pressure and blood serum inorganic anions concentrations in spontaneous-hypertensive rats (SHR) with experimental chronic renal failure //** Nephrology Dialysis Transplantation Plus. – 2008. – V. 1. – Suppl. 2. – P. i245. URL http://ndtplus.oxfordjournals.org/cgi/reprint/1/suppl_2/i232.pdf
- Li B.-L., Zhang Z.-G., Du L.-L., Wang W. **Chiral resolutions of (9-anthryl)methoxyacetic acid and (9-anthryl)hydroxyacetic acid by capillary electrophoresis //** Chirality. – 2008. – V. 20. – No. 1. – P. 35–39. doi:10.1002/chir.20485
- Li T., Shi Z.-G., Zheng M.-M., Feng Y.-Q. **Multiresidue determination of sulfonamides in chicken meat by polymer monolith microextraction and capillary zone electrophoresis with field-amplified sample stacking //** Journal of Chromatography A. – 2008. – V. 1205. – No. 1–2. – P. 163–170. doi:10.1016/j.chroma.2008.08.017
- Liu H., Wen Y., Luan F., Gao Y. **Analysis of food**

- additives by capillary electrophoresis** // Acta Chromatographica. – 2008. – V. 20. – No. 2. – P. 239–246. doi:[10.1556/AChrom.20.2008.2.8](https://doi.org/10.1556/AChrom.20.2008.2.8)
- Mei J., Xu J.-R., Xiao Y.-X., Liao X.-Y., Qiu G.-F., Feng Y.-Q. **A novel covalent coupling method for coating of capillaries with liposomes in capillary electrophoresis** // Electrophoresis. – 2008. – V. 29. – No. 18. – P. 3825–3833. doi:[10.1002/elps.200700956](https://doi.org/10.1002/elps.200700956)
- Mei J., Xu J.-R., Xiao Y.-X., Zhang Q.-R., Feng Y.-Q. **Immobilized phospholipid capillary electrophoresis for study of drug-membrane interactions and prediction of drug activity** // Talanta. – 2008. – V. 75. – No. 1. – P. 104–110. doi:[10.1016/j.talanta.2007.10.037](https://doi.org/10.1016/j.talanta.2007.10.037)
- Polyakova E. V., Shubaeva O. V., Saprykin A. I. **Chlorine impurity content of Bi₂O₃ and GeO₂** // Inorganic Materials. – 2008. – V. 44. – No. 9. – P. 986–989. doi:[10.1134/S0020168508090161](https://doi.org/10.1134/S0020168508090161)
- Polyakova E. V., Shubaeva O. V. **Determination of chloride ion in bismuth oxide by capillary electrophoresis** // Journal of Analytical Chemistry. – 2008. – V. 63. – No. 4. – P. 391–394. doi:[10.1007/s10809-008-4014-8](https://doi.org/10.1007/s10809-008-4014-8)
- Shi Z.-G., Wei F., Feng Y.-Q. **A novel approach to prepare a glass-fiber-packed capillary column for capillary electrochromatography** // Journal of Liquid Chromatography & Related Technologies. – 2008. – V. 31. – No. 20. – P. 3094–3104. doi:[10.1080/10826070802480008](https://doi.org/10.1080/10826070802480008)
- Sokol E. V., Nokhrin D. Yu., Nigmatulina E. N., Gribovskii Yu. G. **Environmental-geochemical state of the Yuzhnouralskaya SDPP reservoir** // Water Resources. – 2008. – V. 35. – No. 6. – P. 686–700. doi:[10.1134/S0097807808060080](https://doi.org/10.1134/S0097807808060080)
- Téllez A., Weiss V. U., Kenndler E. **An extended description of the effect of detergent monomers on migration in micellar electrokinetic chromatography** // Electrophoresis. – 2008. – V. 29. – No. 18. – P. 3916–3923. doi:[10.1002/elps.200800130](https://doi.org/10.1002/elps.200800130)
- Vanifatova N. G., Zavarzina A. G., Ya. Spivakov B. Ya. **Potential of capillary zone electrophoresis for estimation of humate acid-base properties** // Journal of Chromatography A. – 2008. – V. 1183. – No. 1–2. – P. 186–191. doi:[10.1016/j.chroma.2008.01.004](https://doi.org/10.1016/j.chroma.2008.01.004)
- Wang L., Li D., Bao C., You J., Wang Z., Shi Y., Zhang H. **Ultrasonic extraction and separation of anthraquinones from Rheum palmatum L.** // Ultrasonics – Sonochemistry. – 2008. – V. 15. – No. 5. – P. 738–746. doi:[10.1016/j.ultsonch.2007.12.008](https://doi.org/10.1016/j.ultsonch.2007.12.008)
- Wei F., Feng Y.-Q. **Rapid determination of aristolochic acid I and II in medicinal plants with high sensitivity by cucurbit[7]uril-modifier capillary zone electrophoresis** // Talanta. – 2008. – V. 74. – No. 4. – P. 619–624. doi:[10.1016/j.talanta.2007.06.030](https://doi.org/10.1016/j.talanta.2007.06.030)
- Wu Y., Xie J., Wang F., Chen Z. **Electrokinetic separation of peptides and proteins using a polyvinylamine-coated capillary with UV and ESI-MS detection** // Journal of Separation Science. – 2008. – V. 31. – No. 5. – P. 814–823. doi:[10.1002/jssc.200700518](https://doi.org/10.1002/jssc.200700518)
- Yang G., Zhao Y., Li M., Zhu Z., Zhuang Q. **Study on chiral resolution of three beta-blockers by affinity electrokinetic chromatography** // Talanta. – 2008. – V. 75. – No. 1. – P. 222–226. doi:[10.1016/j.talanta.2007.11.007](https://doi.org/10.1016/j.talanta.2007.11.007)
- Zavarzina A. G., Vanifatova N. G., Stepanov A. A. **Fractionation of humic acids according to their hydrophobicity, size, and charge-dependent mobility by the salting-out method** // Eurasian Soil Science. – 2008. – V. 41. – No. 12. – P. 1294–1301. doi:[10.1134/S1064229308120065](https://doi.org/10.1134/S1064229308120065)
- Zhou B., Wu Z., Li X., Zhang J., Hu X. **Analysis of ellagic acid in pomegranate rinds by capillary electrophoresis and high-performance liquid chromatography** // Phytochemical Analysis. – 2008. – V. 19. – No. 1. – P. 86–89.
-
- ## 2009
- Amelin V. G., Aleshin N. S. **Solid-phase fluorescence in chemical test methods of analysis based on the principles of planar chromatography** // Journal of Analytical Chemistry. – 2009. – V. 64. – No. 11. – P. 1189–1192. doi:[10.1134/S106193480911015X](https://doi.org/10.1134/S106193480911015X)
- Amelin V. G., Koroleva O. V. **Fabrics and papers modified with analytical reagents for the test determination of selenium(IV) and tellurium(IV)** // Journal of Analytical Chemistry. – 2009. – V. 64. – No. 12. – P. 1275–1278. doi:[10.1134/S1061934809120132](https://doi.org/10.1134/S1061934809120132)
- Fu F.-F., Xiao L.-X., Wang W., Xu X.-Q., Xu L.-J., Qi G.-M., Chen G.-N. **Study on the degradation of 2,4-dichlorophenoxyacetic acid (2,4-D) and 2-methyl-4-chloro-phenoxyacetic sodium (MCPA sodium) in natural agriculture-soils of Fuzhou, China using capillary electrophoresis** // Science of the Total Environment. – 2009. – V. 407. – No. 6. – P. 1998–2003. doi:[10.1016/j.scitotenv.2008.11.023](https://doi.org/10.1016/j.scitotenv.2008.11.023)
- Gavrilin M. V., Senchenko S. P. **Use of capillary electrophoresis for estimating the quality of chamomile flowers** // Pharmaceutical Chemistry Journal. – 2009. – V. 43. – No. 10. – P. 582–584. doi:[10.1007/s11094-010-0355-3](https://doi.org/10.1007/s11094-010-0355-3)
- Kartsova L. A., Alekseeva A. V., Khmel'nitskii I. K., Komissarchik S. M., Nyanikova G. G., Berezhkin V. G. **Electromigration methods in the determination of synthetic food dyes** // Journal of Analytical Chemistry. – 2009. – V. 64. – No. 12. – P. 1264–1269. doi:[10.1134/S1061934809120119](https://doi.org/10.1134/S1061934809120119)
- Kartsova L. A., Ganzha O. V. **A new electrophoretic technique for determining catecholamines and their metabolites under the conditions of micellar electrokinetic chromatography format** // Journal of Analytical Chemistry. – 2009. – V. 64. – No. 5. – P. 518–523. doi:[10.1134/S1061934809050153](https://doi.org/10.1134/S1061934809050153)
- Kartsova L. A., Strel'nikova E. G. **Effect of organized media on the chromatographic and electrophoretic**

determination of pharmaceutical preparations in biological samples // Journal of Analytical Chemistry. – 2009. – V. 64. – No. 2. – P. 156–163. doi:[10.1134/S1061934809020117](https://doi.org/10.1134/S1061934809020117)

Koshcheeva O. S., Shubaeva O. V., Kuznetzova L. I. **Arsenic speciation in natural and contaminated waters using CZE with in situ derivatization by molybdate and direct UV-detection** // Electrophoresis. – 2009. – V. 30. – No. 6. – P. 1088–1093. doi:[10.1002/elps.200800384](https://doi.org/10.1002/elps.200800384)

Li D., Wang Z., Wang L., Qu C., Zhang H. **Separation and determination of amino acids by CE using 1-butyl-3-methylimidazolium-based ionic liquid as background electrolyte** // Chromatographia. – 2009. – V. 70. – No. 5–6. – P. 825–830. doi:[10.1365/s10337-009-1247-0](https://doi.org/10.1365/s10337-009-1247-0)

Li T., Xu Y., Feng Y.-Q. **Open tubular capillary electrochromatographic separation of proteins and peptides using a TiO₂ nanoparticle-deposited capillary by liquid phase deposition** // Journal of Liquid Chromatography & Related Technologies. – 2009. – V. 32. – No. 17. – P. 2484–2498. doi:[10.1080/10826070903248411](https://doi.org/10.1080/10826070903248411)

Liu H., Wen Y., Luan F., Gao Y. **Application of experimental design and radial basis function neural network to the separation and determination of active components in traditional Chinese medicines by capillary electrophoresis** // Analytica Chimica Acta. – 2009. – V. 638. – No. 1. – P. 88–93. doi:[10.1016/j.aca.2009.02.006](https://doi.org/10.1016/j.aca.2009.02.006)

Prokhorova A. F., Shapovalova E. N., Shpak A. V., Staroverov S. M., Shpigun O. A. **Enantioresognition of profens by capillary electrophoresis using a novel chiral selector eremomycin** // Journal of Chromatography A. – 2009. – V. 1216. – No. 17. – P. 3674–3677. doi:[10.1016/j.chroma.2009.02.017](https://doi.org/10.1016/j.chroma.2009.02.017)

Senchenko S. P., Checheneva K. S., Gavrilin M. V., Ushakova L. S. **Butoconazole nitrate pharmacokinetics studied by capillary electrophoresis** // Pharmaceutical Chemistry Journal. – 2009. – V. 43. – No. 11. – P. 597–600. doi:[10.1007/s11094-010-0360-6](https://doi.org/10.1007/s11094-010-0360-6)

Téllez A., Kenndler E. **Formamide as an organic modifier in MEKC with SDS** // Electrophoresis. – 2009. – V. 30. – No. 2. – P. 357–364. doi:[10.1002/elps.200800329](https://doi.org/10.1002/elps.200800329)

Wu Y., Xie J., Wang F., Chen Z. **Separation of small molecular peptides with same amino acid composition but different sequences by capillary electrophoresis** // Journal of Separation Science. – 2009. V. 32. – No. 3. – P. 437–440. doi:[10.1002/jssc.200800513](https://doi.org/10.1002/jssc.200800513)

Yang G.-D., Zheng J.-P., Huang H.-X., Qi G.-M., Xu J.-H., Fu F.-F. **Speciation analysis of arsenic in seafood with capillary electrophoresis-UV detection** // Chinese Journal of Analytical Chemistry. – 2009. – V. 37. – No. 4. – P. 532–536. doi:[10.1016/S1872-2040\(08\)60096-1](https://doi.org/10.1016/S1872-2040(08)60096-1)

Zhang L., Chen J., He Y., Chi Y., Chen G. **A new mixed micellar electrokinetic chromatography method for analysis of natural and synthetic anabolic steroids**

// Talanta. – 2009. – V. 77. – No. 3. – P. 1002–1008. doi:[10.1016/j.talanta.2008.07.060](https://doi.org/10.1016/j.talanta.2008.07.060)

2010

Alekseeva A. V., Kartsova L. A., Kazachishcheva N. V. **Determination of sugars using ligand-exchange capillary electrophoresis** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 2. – P. 202–208. doi:[10.1134/S1061934810020176](https://doi.org/10.1134/S1061934810020176)

Amelin V. G., Nikolaev Yu. N., Lomonosov I. A., Alechin N. S. **Solid-phase spectrophotometric analysis of natural water with the simultaneous sample preparation and dynamic preconcentration of test components on reagent cellulose matrices** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 5. – P. 445–454. doi:[10.1134/S1061934810050035](https://doi.org/10.1134/S1061934810050035)

Belyaeva L. Yu., Prokhorova A. F., Beklemishev M. K. **Determination of benzoate by paper chromatography with visualization due to its inhibitory activity in the reaction of the photosensitized autooxidation of pyrogallol A** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 1. – P. 64–70. doi:[10.1134/S1061934810010120](https://doi.org/10.1134/S1061934810010120)

Fakhari A.R., Nojavan S., Ebrahimi S. N., Evenhuis C. J. **Optimized ultrasound-assisted extraction procedure for the analysis of opium alkaloids in papaver plants by cyclodextrin-modified capillary electrophoresis** // Journal of Separation Science. – 2010. – V. 33. – No. 14. – P. 2153–2159. doi:[10.1002/jssc.201000135](https://doi.org/10.1002/jssc.201000135)

Fomin A. N., Smirnova A. V., Semenov M. B., Smirnova E. V. **Identification of several basic nitrogen-containing compounds in the presence of coextracted substances of urine and blood by capillary electrophoresis** // Pharmaceutical Chemistry Journal. – 2010. – V. 44. – No. 9. – P. 514–516. doi:[10.1007/s11094-010-0506-6](https://doi.org/10.1007/s11094-010-0506-6)

Kartsova L. A., Ganzha O. V. **New possibilities of micellar electrokinetic chromatography and microemulsion electrokinetic chromatography in the determination of catechols and catecholamines in natural samples** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 3. – P. 280–286. doi:[10.1134/S1061934810030123](https://doi.org/10.1134/S1061934810030123)

Kartsova L. A., Ganzha O. V., Alekseeva A. V. **Possibilities and limitations of different modes of capillary electrophoresis for the quantitative determination of catechols and caffeine in black and green tea** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 2. – P. 209–214. doi:[10.1134/S1061934810020188](https://doi.org/10.1134/S1061934810020188)

Mei J., Tian Y.-P., He W., Xiao Y.-X., Wei J., Feng Y.-Q. **Preparation approaches of the coated capillaries with liposomes in capillary electrophoresis** // Journal of Chromatography A. – 2010. – V. 1217. – No. 44. – P. 6979–6986. doi:[10.1016/j.jchroma.2010.08.062](https://doi.org/10.1016/j.jchroma.2010.08.062)

Moskov L. N., Kamentsev M. Ya., Grigor'ev G.

- L., Yakimova N. M. **Capillary-electrophoretic determination of zinc and cadmium ions in aqueous solutions with ion-exchange preconcentration** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 1. – P. 99–102. doi:[10.1134/S1061934810010193](https://doi.org/10.1134/S1061934810010193)
- Narezhnaya E. V., Askalepova O. I., Nikashina A. A., Kruckier I. I., Pogorelova T. N. **Determination of L-arginine in amniotic fluid by capillary zone electrophoresis** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 12. – P. 1280–1283. doi:[10.1134/S1061934810120130](https://doi.org/10.1134/S1061934810120130)
- Nikonorov V. V. **Determination of the stability constants of lanthanide complexes with oxyacids using capillary electrophoresis** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 4. – P. 359–365. doi:[10.1134/S1061934810040040](https://doi.org/10.1134/S1061934810040040)
- Nojavan S., Fakhari A. R. **Electro membrane extraction combined with capillary electrophoresis for the determination of amlodipine enantiomers in biological samples** // Journal of Separation Science. – 2010. – V. 33. – No. 20. – P. 3231–3238. doi:[10.1002/jssc.201000242](https://doi.org/10.1002/jssc.201000242)
- Nowik-Zajac A., Kozłowski C., Walkowiak W. **Transport of perrhenate anions across plasticizer membranes with basic ion carriers** // Physicochemical Problems of Mineral Processing. – 2010. – V. 44. – P. 179–186. URL http://www.minproc.pwr.wroc.pl/journal/pdf/2010/spis_mat2010.htm
- Pakhomova O. A., Korenman Ya. I., Mokshina N. Ya., Niftaliev S. I. **Extraction separation and electrophoretic determination of tyrosine and glycine** // Russian Journal of Applied Chemistry. – 2010. – V. 83. – No. 11. – P. 1940–1943. doi:[10.1134/S107042721011008X](https://doi.org/10.1134/S107042721011008X)
- Ponomareva E. A., Kartuzova V. E., Vlakh E. G., Tennikova T. B. **Monolithic bioreactors: Effect of chymotrypsin immobilization on its biocatalytic properties** // Journal of Chromatography B. – 2010. – V. 878. – No. 5–6. – P. 567–574. doi:[10.1016/j.jchromb.2010.01.001](https://doi.org/10.1016/j.jchromb.2010.01.001)
- Prokhorova A. F., Kuznetsov M. A., Shapovalova E. N., Staroverov S. M., Shpigun O. A. **Enantioseparations of aromatic carboxylic acid by capillary electrophoresis using eremomycin as a chiral selector in a chitosanmodified capillary** // Procedia Chemistry. – 2010. – V. 2. – No. 1. – P. 9–13. doi:[10.1016/j.proche.2009.12.004](https://doi.org/10.1016/j.proche.2009.12.004)
- Prokhorova A. F., Kuznetsov M. A., Shapovalova E. N., Staroverov S. M., Shpigun O. A. **Separation of enantiomers of N-derivatives of amino acids by capillary electrophoresis using macrocyclic antibiotics** // Moscow University Chemistry Bulletin. – 2010. – V. 65. – No. 5. – P. 295–299. doi:[10.3103/S0027131410050032](https://doi.org/10.3103/S0027131410050032)
- Rodionova O., Pomerantsev A., Houmøller I., Shpak A., Shpigun O. **Noninvasive detection of counterfeited ampoules of dexamethasone using NIR with confirmation by HPLC-DAD-MS and CE-UV methods** // Analytical and Bioanalytical Chemistry. – 2010. – V. 397. – No. 5. – P. 1927–1935. doi:[10.1007/s00216-010-3711-y](https://doi.org/10.1007/s00216-010-3711-y)
- Svidritskii E. P., Jiang M. Sh., Il'in V. I., Dyn'kov D. I., Pirogov A. V., Shpigun O. A. **The determination of alendronate ion and certain inorganic ions using capillary electrophoresis** // Moscow University Chemistry Bulletin. – 2010. – V. 65. – No. 1. – P. 42–48. doi:[10.3103/S0027131410010062](https://doi.org/10.3103/S0027131410010062)
- Vanifatova N. G., Spivakov B. Y., Belgorokhov A. I., Karpov Y. A., Kuselman I. **Study of properties of silicone-silica crystalline nanospheres in aqueous solutions by capillary zone electrophoresis** // International Journal of Nanoparticles. – 2010. – V. 3. – No. 1. – P. 65–76. doi:[10.1504/IJNP.2010.033222](https://doi.org/10.1504/IJNP.2010.033222)
- Wei F., Fan J., Zheng M.-M., Feng Y.-Q. **Combining poly (methacrylic acid-co-ethylene glycol dimethacrylate) monolith microextraction and octadecyl phosphonic acid-modified zirconia-coated CEC with field-enhanced sample injection for analysis of antidepressants in human plasma and urine** // Electrophoresis. – 2010. – V. 31. – No. 4. – P. 714–723. doi:[10.1002/elps.200900425](https://doi.org/10.1002/elps.200900425)
- Wen Y., Liu H., Tian L., Han P., Luan F. **Analysis of alkaloids in pharmaceutical preparations containing Kushen by capillary electrophoresis with application of experimental design and a quantitative structure-property relationship approach** // Acta Chromatographica. – 2010. – V. 22. – No. 3. – P. 445–457. doi:[10.1556/AChrom.22.2010.3.8](https://doi.org/10.1556/AChrom.22.2010.3.8)
- Wen Y., Liu H., Han P., Gao Y., Luan F., Li X. **Determination of melamine in milk powder, milk and fish feed by capillary electrophoresis: a good alternative to HPLC** // Journal of the Science of Food and Agriculture. – 2010. – V. 90. – No. 13. – P. 2178–2182. doi:[10.1002/jsfa.4066](https://doi.org/10.1002/jsfa.4066)
- Zhang W., Wu Y., Chen Y., Jiang H., Chen Z. **Simultaneous separation of four metal ions by CE using bis(2-pyridylmethyl)(8-pyridylmethoxy-quinoline-2-methyl)amine as chelating agent** // Chromatographia. – 2010. – V. 72. – No. 11–12. – P. 1201–1205. doi:[10.1365/s10337-010-1775-7](https://doi.org/10.1365/s10337-010-1775-7)
- Zyablov A. N., Kalach A. V., Zhibrova Yu. A., Selemenev V. F., D'yakonova O. V. **Determination of glycine in aqueous solutions using a molecularly imprinted polymer-modified piezosensor** // Journal of Analytical Chemistry. – 2010. – V. 65. – No. 1. – P. 91–93. doi:[10.1134/S106193481001017X](https://doi.org/10.1134/S106193481001017X)
- ## 2011
- Alekseeva A. V., Kartsova L. A. **Potencies of ligand-exchange capillary electrophoresis in the determination of biologically active compounds** // Journal of Analytical Chemistry. – 2011. – V. 66. – No. 7. – P. 651–659. doi:[10.1134/S1061934811070021](https://doi.org/10.1134/S1061934811070021)
- Cala M., Vásquez A., García A., Martínez J. R., Stashenko E. **Estudio comparativo por electroforesis capilar y cromatografía líquida de alta eficiencia de catequinas extraídas de cinco variedades de cacao Colombiano** // Revista de la Academia Colombiana

- de Ciencias Exactas, Físicas y Naturales. – 2011. – V. 35. – No. 136. – P. 371–379. (*In Spanish*).
URL http://www.scielo.org.co/scielo.php?pid=S0370-39082011000300010&script=sci_arttext
- Chernov'yants M. S., Aleshina N. V., Burykin I. V. **Chromatographic and electrophoretic determination of thioamides based on thiazole, 1,3,4-thiadiazole, 1,2,4-triazole, and tetrazole** // Journal of Analytical Chemistry. – 2011. – V. 66. – No. 3. – P. 280–284. doi:[10.1134/S1061934811010023](https://doi.org/10.1134/S1061934811010023)
- Ershov D. S., Paston S. V., Kartsova L. A., Alekseeva A. V., Ganzha O. V., Kasyanenko N. A. **Investigation of the radioprotective properties of some tea polyphenols** // Structural Chemistry. – 2011. – V. 22. – No. 2. – P. 475–482. doi:[10.1007/s11224-011-9765-4](https://doi.org/10.1007/s11224-011-9765-4)
- Foteeva L. S., Trofimov D. A., Kuznetsova O. V., Kowol Ch. R., Arion V. B., Keppler B. K., Timerbaev A. R. **A quantitative structure-activity approach for lipophilicity estimation of antitumor complexes of different metals using microemulsion electrokinetic chromatography** // Journal of Pharmaceutical and Biomedical Analysis. – 2011. – V. 55. – No. 3. – P. 409–413. doi:[10.1016/j.jpba.2011.02.011](https://doi.org/10.1016/j.jpba.2011.02.011)
- Li D., Wang Z., Wang L., Xu X., Zhang H. **Ultrasonic extraction coupled with capillary electrophoresis for the determination of azo dyes in lipsticks using ionic liquid as dynamic coating and background electrolyte** // Chinese Journal of Chemistry. – 2011. – V. 29. – No. 1. – P. 147–152. doi:[10.1002/cjoc.201190043](https://doi.org/10.1002/cjoc.201190043)
- Li D., Yang Q., Wang Z., Su R., Xu X., Zhang H. **Determination of fluoroquinolones in blood by matrix solid-phase dispersion extraction and CE** // Journal of Separation Science. – 2011. – V. 34. – No. 7. – P. 822–829. doi:[10.1002/jssc.201000693](https://doi.org/10.1002/jssc.201000693)
- Mohammadi A., Nojavan S., Rouini M., Fakhari A. R. **Stability evaluation of tramadol enantiomers using a chiral stability-indicating capillary electrophoresis method and its application to pharmaceutical analysis** // Journal of Separation Science. – 2011. – V. 34. – No. 13. – P. 1613–1620. doi:[10.1002/jssc.201100021](https://doi.org/10.1002/jssc.201100021)
- Nojavan S., Fakhari A. R. **Chiral separation and quantitation of cetirizine and hydroxyzine by maltodextrin-mediated CE in human plasma: Effect of zwitterionic property of cetirizine on enantioseparation** // Electrophoresis. – 2011. – V. 32. – No. 6–7. – P. 764–771. doi:[10.1002/elps.201000607](https://doi.org/10.1002/elps.201000607)
- Okun V. M. **Capillary electrophoresis: Do you really know what you drink and eat?** // Deutsche Lebensmittel-Rundschau. – 2011. – 107 Jg. – No. 1. – S. 36–39.
- Papieva I. S., Kirsanov D. O., Legin A. V., Kartsova L. A., Alekseeva A. V., Vlasov Yu. G., Bhattacharyya N., Sarkar S., Bandyopadhyay R. **Analysis of tea samples with a multisensor system and capillary electrophoresis** // Russian Journal of Applied Chemistry. – 2011. – V. 84. – No. 6. – P. 964–971. doi:[10.1134/S1070427211060115](https://doi.org/10.1134/S1070427211060115)
- Prokhorova A. F., Shapovalova E. N., Popov D. S., Shpigin O. A. **Use of lignins as components of background electrolyte in capillary electrophoresis** // Journal of Analytical Chemistry. – 2011. – V. 66. – No. 5. – P. 515–521. doi:[10.1134/S1061934811050145](https://doi.org/10.1134/S1061934811050145)
- Rudnev A. V., Ermolin M. S., Dzherajan T. G., Vanifatova N. G., Fedotov P. S. **Characterization of a hydroxyapatite suspension by capillary zone electrophoresis after fractionation in a rotating coiled column** // Mendeleev Communications. – 2011. – V. 21. – No. 4. – P. 212–214. doi:[10.1016/j.mencom.2011.07.014](https://doi.org/10.1016/j.mencom.2011.07.014)
- Sidorova A. A., Kartsova L. A. **Study of the kynurenine pathway of tryptophan metabolism by capillary electrophoresis and mass spectrometry** // Journal of Analytical Chemistry. – 2011. – V. 66. – No. 3. – P. 322–326. doi:[10.1134/S1061934811030166](https://doi.org/10.1134/S1061934811030166)
- Xiao M., Ye J., Tang X., Huang Y. **Determination of soybean isoflavones in soybean meal and fermented soybean meal by micellar electrokinetic capillary chromatography (MECC)** // Food Chemistry. – 2011. – V. 126. – No. 3. – P. 1488–1492. doi:[10.1016/j.foodchem.2010.11.168](https://doi.org/10.1016/j.foodchem.2010.11.168)

2012

- Amelin V. G., Bol'shakov D. S., Tretiakov A. V. **Determination of glyphosate and aminomethylphosphonic acid in surface water and vegetable oil by capillary zone electrophoresis** // Journal of Analytical Chemistry. – 2012. – V. 67. – No. 4. – P. 386–391. doi:[10.1134/S1061934812020037](https://doi.org/10.1134/S1061934812020037)
- Amelin V. G., Bol'shakov D. S., Tretyakov A. V. **Separation and quantification of polar pesticides in well, surface, and drinking water by capillary electrophoresis** // Journal of Analytical Chemistry. – 2012. – V. 67. – No. 11. – P. 904–924. doi:[10.1134/S106193481209002X](https://doi.org/10.1134/S106193481209002X)
- Fakhari A. R., Tabani H., Nojavan S., Abedi H. **Electromembrane extraction combined with cyclodextrin-modified capillary electrophoresis for the quantification of trimipramine enantiomers** // Electrophoresis. – 2012. – V. 33. – No. 3. – P. 506–515. doi:[10.1002/elps.201100426](https://doi.org/10.1002/elps.201100426)
- Gavrilin M. V., Sedin A. V., Senchenko S. P. **Quantitative determination of anticancer compounds in aerial parts of some plants from the family Brassicaceae** // Pharmaceutical Chemistry Journal. – 2012. – V. 46. – No. 6. – P. 360–362. doi:[10.1007/s11094-012-0798-9](https://doi.org/10.1007/s11094-012-0798-9)
- Golubenko A. M., Nikonorov V. V., Nikitina T. G. **Determination of hydroxycarboxylic acids in food products by capillary electrophoresis** // Journal of Analytical Chemistry. – 2012. – V. 67. – No. 9. – P. 778–782. doi:[10.1134/S1061934812090055](https://doi.org/10.1134/S1061934812090055)
- Han P., Luan F., Yan X., Gao Y., Liu H. **Separation and determination of honokiol and magnolol in Chinese traditional medicines by capillary electrophoresis**

- with the application of response surface methodology and radial basis function neural network** // Journal of Chromatographic Science. – 2012. – V. 50. – No. 1. – P. 71–75. doi:[10.1093/chromsci/bmr010](https://doi.org/10.1093/chromsci/bmr010)
- Kartsova L. A., Sidorova A. A., Bessonova E. A. **Different methods of on-line preconcentration in the electrophoretic determination of amines, amino acids, and steroid hormones** // Journal of Analytical Chemistry. – 2012. – V. 67. – No. 7. – P. 642–648. doi:[10.1134/S1061934812070039](https://doi.org/10.1134/S1061934812070039)
- Kompantsev D. V. **Stability of glucosamine dosage forms** // Russian Journal of General Chemistry. – 2012. – V. 82. – No. 3. – P. 579–585. doi:[10.1134/S1070363212030371](https://doi.org/10.1134/S1070363212030371)
- Korolev A. A., Viktorova E. N., Orekhov V. A., Kanatyeva A. Yu., Kurganov A. A. **Separation of polystyrenes by means of open tubular capillary chromatography** // Journal of Separation Science. – 2012. – V. 35. – No. 9. – P. 1118–1122. doi:[10.1002/jssc.201101076](https://doi.org/10.1002/jssc.201101076)
- Lebedeva M. V., Bulgakova G. A., Prokhorova A. F., Shapovalova E. N., Chernobrovkin M. G., Shpigin O. A. **Azithromycin for enantioseparation of tetrahydrozoline in NACE** // Chromatographia. – 2012. – Spec Issue: Advances in Chromatography and Electrophoresis & Chiranal 2012. doi:[10.1007/s10337-012-2347-9](https://doi.org/10.1007/s10337-012-2347-9)
- Mu G., Liu H., Gaob Y., Luan F. **Determination of benzoyl peroxide, as benzoic acid, in wheat flour by capillary electrophoresis compared with HPLC** // Journal of the Science of Food and Agriculture. – 2012. – V. 92. – No. 4. – P. 960–964. doi:[10.1002/jsfa.4677](https://doi.org/10.1002/jsfa.4677)
- Mu G., Luan F., Xu L., Hu F., Liu H., Gao Y. **Determination of purines in soybean milk by capillary electrophoresis in comparison with high performance liquid chromatography** // Analytical Methods. – 2012. – V. 4. – No. 10. – P. 3386–3391. doi:[10.1039/C2AY25488C](https://doi.org/10.1039/C2AY25488C)
- Mu G., Liu H., Xu L., Tian L., Luan F. **Matrix solid-phase dispersion extraction and capillary electrophoresis determination of tetracycline residues in milk** // Food Analytical Methods. – 2012. – V. 5. – No. 1. – P. 148–153. doi:[10.1007/s12161-011-9225-1](https://doi.org/10.1007/s12161-011-9225-1)
- Nguyen B. D. Q., Chernov'yants M. S., Burykin I. V. **In-capillary derivatization and determination of iodine in sodium chloride solution** // Analyst. – 2012. – V. 137. – No. 2. – P. 481–484. doi:[10.1039/C1AN15932A](https://doi.org/10.1039/C1AN15932A)
- Nojavan S., Moharami A., Fakhari A. R. **Two-step liquid phase microextraction combined with capillary electrophoresis: A new approach to simultaneous determination of basic and zwitterionic compounds** // Journal of Separation Science. – 2012. – V. 35. – No. 15. – P. 1959–1966. doi:[10.1002/jssc.201200229](https://doi.org/10.1002/jssc.201200229)
- Ostroushko A. A., Tonkushina M. O., Korotaev V. Yu., Prokof'eva A. V., Kutyashev I. B., Vazhenin V. A., Danilova I. G., Men'shikov S. Yu. **Stability of the Mo₇₂Fe₃₀ polyoxometalate buckyball in solution** // Russian Journal of Inorganic Chemistry. – 2012. – V. 57. – No. 9. – P. 1210–1213. doi:[10.1134/S0036023612090173](https://doi.org/10.1134/S0036023612090173)
- Prosekov A. Yu., Mudrikova O. V., Babich O. O. **Determination of cinnamic acid by capillary zone electrophoresis using ion-pair reagents** // Journal of Analytical Chemistry. – 2012. – V. 67. – No. 5. – P. 474–477. doi:[10.1134/S1061934812030100](https://doi.org/10.1134/S1061934812030100)
- Rudnev A. V., Vanifatova N. G., Dzherayan T. G., Burmistrov A. A. **Characterization of calcium hydroxyapatite polycrystalline nanoparticles by capillary zone electrophoresis and scanning electron microscopy** // Journal of Analytical Chemistry. – 2012. – V. 67. – No. 6. – P. 565–571. doi:[10.1134/S1061934812060159](https://doi.org/10.1134/S1061934812060159)
- Sidorova A. A., Grigoriev A. V. **Determination of diagnostical markers of urolithiasis by capillary electrophoresis** // Journal of Analytical Chemistry. – 2012. – V. 67. – No. 5. – P. 478–485. doi:[10.1134/S1061934812050115](https://doi.org/10.1134/S1061934812050115)
- Šír M., Podhola M., Patočka T., Honzajková Z., Kocurek P., Kubal M., Kuraš M. **The effect of humic acids on the reverse osmosis treatment of hazardous landfill leachate** // Journal of Hazardous Materials. – 2012. – V. 207–208. – P. 86–90. doi:[10.1016/j.jhazmat.2011.08.079](https://doi.org/10.1016/j.jhazmat.2011.08.079)
- Venediktov A. B., Korenev S. V., Vasil'chenko D. B., Zadesenets A. V., Filatov E. Yu., Mamonov S. N., Ivanova L. V., Prudnikova N. G., Semitut E. Yu. **On preparation of platinum(IV) nitrate solutions from hexahydroxoplatinates(IV)** // Russian Journal of Applied Chemistry. – 2012. – V. 85. – No. 7. – P. 995–1002. doi:[10.1134/S1070427212070014](https://doi.org/10.1134/S1070427212070014)
- Wu Y., Zhang W., Chen Z. **A poly (4-vinylpyridine-co-ethylene glycol dimethacrylate) monolithic concentrator for in-line concentration-capillary electrophoresis analysis of phenols in water samples** // Electrophoresis. – 2012. – V. 33. – No. 18. – P. 2911–2919. doi:[10.1002/elps.201250004](https://doi.org/10.1002/elps.201250004)
- Xu L. N., Gai F. Y., Mu G. F., Gao Y., Liu H. T., Luan F. **Determination of formaldehyde in aquatic products by micellar electrokinetic capillary chromatography with 2,4-dinitrophenylhydrazine derivatization** // Acta Chromatographica. – 2012. – V. 24. – No. 4. – P. 519–528. doi:[10.1556/AChrom.24.2012.4.1](https://doi.org/10.1556/AChrom.24.2012.4.1)
- Zenkevich I. G., Ukolova E. S. **Dependence of chromatographic retention indices on a ratio of amounts of target and reference compounds** // Journal of Chromatography A. – 2012. – V. 1265. – P. 133–143. doi:[10.1016/j.chroma.2012.09.076](https://doi.org/10.1016/j.chroma.2012.09.076)
- Zhang Y., Huang L., Chen Q., Chen Z. **A silica monolithic column with chemically bonded L-pipeolic acid as chiral stationary phase for enantiomeric separation of dansyl amino acids by CEC-MS** // Chromatographia. – 2012. – V. 75. – No. 5–6. – P. 289–296. doi:[10.1007/s10337-012-2188-6](https://doi.org/10.1007/s10337-012-2188-6)
- Zhou C., Tong Sh., Chang Y., Jia Q., Zhou W. **Ionic liquid-based dispersive liquid–liquid microextraction**

with back-extraction coupled with capillary electrophoresis to determine phenolic compounds
// Electrophoresis. – 2012. – V. 33. – No. 8. – P. 1331–1338. doi:[10.1002/elps.201100469](https://doi.org/10.1002/elps.201100469)

2013

Amelin V. G., Bol'shakov D. S., Tret'yakov A. V. **Dispersive liquid-liquid microextraction and solid-phase extraction of polar pesticides from natural water and their determination by micellar electrokinetic chromatography** // Journal of Analytical Chemistry. – 2013. – V. 68. – No. 5. – P. 386–397. doi:[10.1134/S1061934813050031](https://doi.org/10.1134/S1061934813050031)

Fakhari A. R., Tabani H., Behdad H., Nojavan S., Taghizadeh M. **Electrically-enhanced microextraction combined with maltodextrin-modified capillary electrophoresis for quantification of tolterodine enantiomers in biological samples** // Microchemical Journal. – 2013. – V. 106. – P. 186–193. doi:[10.1016/j.microc.2012.06.010](https://doi.org/10.1016/j.microc.2012.06.010)

Hasheminasab K. S., Fakhari A. R. **Development and application of carbon nanotubes assisted electromembrane extraction (CNTs/EME) for the determination of buprenorphine as a model of basic drugs from urine samples** // Analytica Chimica Acta. – 2013. – V. 767. – P. 75–80. doi:[10.1016/j.aca.2012.12.046](https://doi.org/10.1016/j.aca.2012.12.046)

Hasheminasab K. S., Fakhari A. R., Shahsavani A., Ahmar H. **A new method for the enhancement of electromembrane extraction efficiency using carbon nanotube reinforced hollow fiber for the determination of acidic drugs in spiked plasma, urine, breast milk and wastewater samples** // Journal of Chromatography A. – 2013. – V. 1285. – P. 1–6. doi:[10.1016/j.chroma.2013.01.115](https://doi.org/10.1016/j.chroma.2013.01.115)

Hu F., Xu L., Luan F., Liu H., Gao Y. **Determination of neotame in non-alcoholic beverage by capillary zone electrophoresis** // Journal of the Science of Food and Agriculture. – 2013. – V. 93. – No. 13. – P. 3334–3338. doi:[10.1002/jsfa.6181](https://doi.org/10.1002/jsfa.6181)

Kirsanova Yu. A., Chernov'yants M. S., Burykin I. V. **Electrophoretic determination of phenyl and p-bromophenyl substituted 1*H*,2*H*,3*H*,4*H*-pyrido[4,3-*d*]pyrimidinium diiodobromides** // Journal of Analytical Chemistry. – 2013. – V. 68. – No. 11. – P. 977–980. doi:[10.1134/S1061934813110063](https://doi.org/10.1134/S1061934813110063)

Lebedeva M. V., Bulgakova G. A., Prokhorova A. F., Shapovalova E. N., Chernobrovkin M. G., Shpigan O. A. **Azithromycin for enantioseparation of tetrahydrozoline in NACE** // Chromatographia. – 2013. – V. 76. – No. 7–8. – P. 375–379. doi:[10.1007/s10337-012-2347-9](https://doi.org/10.1007/s10337-012-2347-9)

Li X., Zhao Y., Jiang C., Zhang H., Yu A. **Determination of amino acids in *Panax notoginseng* by microwave hydrolysis and derivatization coupled with capillary zone electrophoresis detection** // Chemical Research in Chinese Universities. – 2013. – V. 29. – No. 3. – P. 434–438. doi:[10.1007/s40242-013-2325-2](https://doi.org/10.1007/s40242-013-2325-2)

Monasterio R. P., Fernández M. A., Silva M. F. **High throughput determination of phenolic compounds in virgin olive oil using dispersive liquid liquid microextraction capillary zone electrophoresis** // Electrophoresis. – 2013. – V. 34. – No. 12. – P. 1836–1843. doi:[10.1002/elps.201300117](https://doi.org/10.1002/elps.201300117)

Monasterio R. P., Fernández M. A., Silva M. F. **Olive oil by capillary electrophoresis: characterization and genuineness** // Journal of Agricultural and Food Chemistry. – 2013. – V. 61. – No. 19. – P. 4477–4496. doi:[10.1021/jf400864q](https://doi.org/10.1021/jf400864q)

Mu G., Luan F., Liu H., Gao Y. **Use of experimental design and artificial neural network in optimization of capillary electrophoresis for the determination of nicotinic acid and nicotinamide in food compared with high-performance liquid chromatography** // Food Analytical Methods. – 2013. – V. 6. – No. 1. – P. 191–200. doi:[10.1007/s12161-012-9429-z](https://doi.org/10.1007/s12161-012-9429-z)

Mu G., Luan F., Xu L., Liu H., Gao Y. **Separation and determination of five active components in eye drops by capillary electrophoresis in comparison with HPLC** // Journal of Liquid Chromatography & Related Technologies. – 2013. – V. 36. – No. 5. – P. 549–560. doi:[10.1080/10826076.2012.668736](https://doi.org/10.1080/10826076.2012.668736)

Rodin I., Stavrianidi A., Smirnov R., Braun A., Shpigan O., Rybalchenko I. **New techniques for nerve agent oxidation products determination in environmental water by high-performance liquid chromatography-mass spectrometry (HPLC-MS) and capillary electrophoresis (CE) with direct ultraviolet (UV) detection** // Environmental Forensics. – 2013. – V. 14. – No. 2. – P. 87–96. doi:[10.1080/15275922.2013.781079](https://doi.org/10.1080/15275922.2013.781079)

Rudnev A. V., Vanifatova N. G., Dzherayan T. G., Lazareva E. V., Bulychev N. A. **Study of stability and dispersion composition of calcium hydroxyapatite in aqueous suspensions by capillary zone electrophoresis** // Journal of Analytical Chemistry. – 2013. – V. 68. – No. 8. – P. 700–705. doi:[10.1134/S1061934813080091](https://doi.org/10.1134/S1061934813080091)

Sidorova A. A., Yaroshenko D. V., Murashko E. A., Grigor'ev A. V. **Development of chromatographic and electrophoretic methods for determining vinblastine in blood plasma and prostate gland tissue** // Journal of Analytical Chemistry. – 2013. – V. 68. – No. 3. – P. 265–271. doi:[10.1134/S1061934813030118](https://doi.org/10.1134/S1061934813030118)

Šír M., Honzajková Z., Podhola M., Patočka T., Kocurek P., Bystríanský B., Vurm R., Kubal M., Kuraš M. **Using reverse osmosis technology for recycling wastewater from a coal-fired power plant** // Desalination and Water Treatment. – 2013. – V. 51. – No. 1–3. – P. 328–332. doi:[10.1080/19443994.2012.714858](https://doi.org/10.1080/19443994.2012.714858)

Soto V. C., Maldonado I. B., Gil R. A., Peralta I. E., Silva M. F., Galmarini C. R. **Nectar and flower traits of different onion male sterile lines related to pollination efficiency and seed yield of F1 hybrids** // Journal of Economic Entomology. – 2013. – V. 106. – No. 3. – P. 1386–1394. doi:[10.1603/EC13096](https://doi.org/10.1603/EC13096)

- Tabani H., Fakhari A. R., Shahsavani A. **Simultaneous determination of acidic and basic drugs using dual hollow fibre electromembrane extraction combined with CE** // Electrophoresis. – 2013. – V. 34. – No. 2. – P. 269–276. doi:10.1002/elps.201200330
- Tabani H., Fakhari A. R., Shahsavani A., Behbahani M., Salarian M., Bagheri A., Nojavan S. **Combination of graphene oxide-based solid phase extraction and electro membrane extraction for the preconcentration of chlorophenoxy acid herbicides in environmental samples** // Journal of Chromatography A. – 2013. – V. 1300. – P. 227–235. doi:10.1016/j.chroma.2013.04.026
- Tabani H., Fakhari A. R., Zand E. **Low-voltage electromembrane extraction combined with cyclodextrin modified capillary electrophoresis for the determination of phenoxy acid herbicides in environmental samples** // Analytical Methods. – 2013. – No. 5. – P. 1548–1555. doi:10.1039/C3AY26252A
- Vanifatova N., Rudnev A., Spivakov B. **A new approach to the studies of submicron particles suspensions based on the effect of pressure in capillary zone electrophoresis** // Electrophoresis. – 2013. – V. 34. – No. 15. – P. 2145–2151. doi:10.1002/elps.201300118
- Xu L., Luan F., Hu F., Liu H., Gao Y. **Development and validation of a non-aqueous capillary electrophoresis method for simultaneous estimation of mebendazole and levamisole hydrochloride in compound mebendazole tablets** // Analytical Methods. – 2013. – No. 3. – P. 762–765. doi:10.1039/C2AY26090E
- Xu L., Mu G., Luan F., Liu H., Gao Y. **Determination of amiloride hydrochloride and furosemide in compound furosemide tablets by capillary electrophoresis combined with response surface methodology and artificial neural network** // Journal of Liquid Chromatography & Related Technologies. – 2013. – V. 36. – No. 20. – P. 2905–2918. doi:10.1080/10826076.2012.731669
- ## 2014
- Alimardanova M. K., Kulazhanov T. K., Plockova M., Zhexenbay N. **Amino acids profile of Kazakh national soft cheese made of goat's, cow's milk and their mixture** // Research Journal of Pharmaceutical, Biological and Chemical Sciences. – 2014. – V. 5. – No. 5. – P. 1806–1810. URL [http://www.rjpbc.com/pdf/2014_5\(5\)/\[281\].pdf](http://www.rjpbc.com/pdf/2014_5(5)/[281].pdf)
- Altunina L. K., Fufaeva M. S., Filatov D. A., Svarovskaya L. I., Rozhdestvenskii E. A., Gan-Erdene T. **Effect of cryogel on soil properties** // Eurasian Soil Science. – 2014. – V. 47. – No. 5. – P. 425–431. doi:10.1134/S1064229314010025
- Baharifar H., Fakhari A. R., Ziyadi H., Ali Oghabian M. A., Amani A., Faridi-Majidi R. **Influence of polymeric coating on capillary electrophoresis of iron oxide nanoparticles** // Journal of the Iranian Chemical Society. – 2014. – V. 11. – No 1. – P. 279–284.
- doi:10.1007/s13738-013-0298-1
- Boiteux J., Soto Vargas C., Pizzuolo P., Lucero G., Silva M. F. **Phenolic characterization and antimicrobial activity of folk medicinal plant extracts for their applications in olive production** // Electrophoresis. – 2014. – V. 35. – No. 11. – P. 1709–1718. doi:10.1002/elps.201300562
- Bol'shakov D. S., Amelin V. G., Tret'yakov A. V. **Determination of herbicides and their metabolites in natural waters by capillary zone electrophoresis combined with dispersive liquid-liquid microextraction and on-line preconcentration** // Journal of Analytical Chemistry. – 2014. – V. 69. – No. 1. – P. 72–82. doi:10.1134/S106193481311004X
- Bol'shakov D. S., Amelin V. G., Tret'yakov A. V. **Determination of polar pesticides in soil by micellar electrokinetic chromatography using QuEChERS sample preparation** // Journal of Analytical Chemistry. – 2014. – V. 69. – N. 1. – P. 89–97. doi:10.1134/S1061934814010055
- Burykin I. V., Andreev Yu. A., Varnavskaya A. A. **Electrophoretic and gas-chromatographic analysis of an Afobazol pharmaceutical preparation** // Journal of Analytical Chemistry. – 2014. – V. 69. – No. 10. – P. 1017–1021. doi:10.1134/S1061934814100037
- Khormali A., Petrakov D. **Scale inhibition and its effects on the demulsification and corrosion inhibition** // International Journal of Petroleum and Geoscience Engineering. – 2014. – V. 2. – No. 1. – P. 22–33. URL <http://www.aropub.org/wp-content/uploads/2014/04/AROPUB-IJPGE-14-4.pdf>
- Khormali A., Petrakov D., Shcherbakov G. **Experimental study of scale inhibitors for prevention of calcium carbonate deposition in synthetic formation water** // International Journal of Material Science Innovations. – 2014. – V. 2. – No. 2. – P. 18–28. URL <http://www.aropub.org/wp-content/uploads/2014/05/AROPUB-IJMSI-14-29.htm>
- Komissarchik S., Nyanikova G. **Test systems and a method for express detection of synthetic food dyes in drinks** // LWT – Food Science and Technology. – 2014. – V. 58. – No. 2. – P. 315–320. doi:10.1016/j.lwt.2014.03.038
- Kosova D. A., Emelina A. L., Bykov M. A. **Phase transitions of some sulfur-containing ammonium salts** // Thermochimica Acta. – 2014. – V. 595. – P. 61–66. doi:10.1016/j.tca.2014.08.035
- Lebedeva M. V., Prokhorova A. F., Shapovalova E. N., Shpigun O. A. **Clarithromycin as a chiral selector for enantioseparation of basic compounds in nonaqueous capillary electrophoresis** // Electrophoresis. – 2014. – V. 35. – No. 19. – P. 2759–2764. doi:10.1002/elps.201400135
- Lykhin A. O., Novikova G. V., Kuzubov A. A., Staloverova N. A., Sarmatova N. I., Varganov S. A., Krasnov P. O. **A complex of ceftriaxone with Pb(II): synthesis, characterization, and antibacterial activity study** // Journal of Coordination Chemistry. –

2014. – V. 67. – No. 16. – P. 2783–2794. doi:[10.1080/00958972.2014.938065](https://doi.org/10.1080/00958972.2014.938065)

Ma H., Wang L., Liu H., Luan F., Gao Y. **Application of a non-aqueous capillary electrophoresis method to the analysis of triclosan in personal care products** // Analytical Methods. – 2014. – V. 6. – No. 13. – P. 4723–4728. doi:[10.1039/C4AY00481G](https://doi.org/10.1039/C4AY00481G)

Matczuk M., Foteva L. S., Jarosz M., Galanski M., Keppler B. K., Hirokawa T., Timerbaev A. R. **Can neutral analytes be concentrated by transient isotachophoresis in micellar electrokinetic chromatography and how much?** // Journal of Chromatography A. – 2014. – V. 1345. – P. 212–218. doi:[10.1016/j.chroma.2014.04.022](https://doi.org/10.1016/j.chroma.2014.04.022)

Nojavan S., Pourmoslemi S., Behdad H., Fakhari A. R., Mohammadi A. **Application of maltodextrin as chiral selector in capillary electrophoresis for quantification of amlodipine enantiomers in commercial tablets** // Chirality. – 2014. – V. 26. – No. 8. – P. 394–399. doi:[10.1002/chir.22334](https://doi.org/10.1002/chir.22334)

Okun V. **CE tells you what's really in your food: capillary electrophoresis has emerged as a powerful tool in the fight against adulterated food and beverage** // Chromatography Techniques On-Line. – 2014. – November 6. URL <http://www.laboratoryequipment.com/article/2014/06/ce-tells-you-whats-really-your-food>

Orlova O., Nasonova U. **The unique characteristics of milky-wax ripe walnuts and their usage** // Agronomy Research. – 2014. – V. 12. – No. 3. – P. 769–778. URL http://agronomy.emu.ee/vol123/2014_3_9_b5.pdf

Popovicheva O. B., Kireeva E. D., Steiner S., Rothen-Rutishauser B., Persiantseva N. M., Timofeev M. A., Shonija N. K., Comte P., Czerwinski J. **Microstructure and chemical composition of diesel and biodiesel particle exhaust** // Aerosol and Air Quality Research. – 2014. – V. 14. – P. 1392–1401. doi:[10.4209/aaqr.2013.11.0336](https://doi.org/10.4209/aaqr.2013.11.0336)

Rudnev A. V., Ivanova N. I., Vanifatova N. G., Dzherajan T. G. **The effect of ultrasonic treatment on the stability of a dispersed system of calcium hydroxyapatite in an aqueous solution of Tween 80** // Moscow University Chemistry Bulletin. – 2014. – V. 69. – No. 4. – P. 175–179. doi:[10.3103/S0027131414040099](https://doi.org/10.3103/S0027131414040099)

Shukurov R. R., Lobanova N. V., Savinova I. N., Vorobyova I. G., Nurbakov A. A., Ermolina L. V., Orlova N. V., Mosina A. G., Antonova L. P., Khamitov R. A., Seryogin Yu. A. **Design of a stable cell line producing recombinant darbepoetin alpha based on CHO cells** // Applied Biochemistry and Microbiology. – 2014. – V. 50. – No. 9. – P. 812–818. doi:[10.1134/S0003683814090063](https://doi.org/10.1134/S0003683814090063)

Tabani H., Fakhari A. R., Nojavan S. **Maltodextrins as chiral selectors in CE: molecular structure effect of basic chiral compounds on the enantioseparation** // Chirality. – 2014. – V. 26. – No. 10. – P. 620–628. doi:[10.1002/chir.22344](https://doi.org/10.1002/chir.22344)

Tabani H., Fakhari A. R., Shahsavani A. S., Alibabou H. G. **Electrically assisted liquid-**

phase microextraction combined with capillary electrophoresis for quantification of propranolol enantiomers in human body fluids // Chirality. – 2014. – V. 26. – No. 5. – P. 260–267. doi:[10.1002/chir.22308](https://doi.org/10.1002/chir.22308)

Xu L., Luan F., Wang L., Liu H., Gao Y. **Development of a capillary zone electrophoresis method for determination of mebendazole and levamisole hydrochloride in a combined tablet and a comparison with a LC method** // Journal of AOAC International. – 2014. – V. 97. – No. 1. – P. 128–132. doi:[10.5740/jaoacint.12-268](https://doi.org/10.5740/jaoacint.12-268)

2015

Dzherayan T. G., Vanifatova N. G., Fadeeva I. V., Dzhenloda R. K., Burmistrov A. A., Rudnev A. V., Fomin A. S. **A capillary zone electrophoresis study of the effect of precursors and ultrasonic treatment on the morphology of hydroxyapatite particles** // Journal of Analytical Chemistry. – 2015. – V. 70. – No. 5. – P. 608–614. doi:[10.1134/S1061934815050032](https://doi.org/10.1134/S1061934815050032)

Fakhari A. R., Hasheminasab K. S., Aladaghlo Z., Koruni M. H. **Surfactant-assisted electromembrane extraction combined with capillary electrophoresis as a novel technique for the determination of acidic drugs in biological fluids** // Electrophoresis. – 2015. – V. 36. – No. 24. – P. 3034–3041. doi:[10.1002/elps.201500268](https://doi.org/10.1002/elps.201500268)

Falkova M. T., Bulatov A. V., Pushina M. O., Ekimov A. A., Alekseeva G. M., Moskvin L. N. **Multicommutated stepwise injection determination of ascorbic acid in medicinal plants and food samples by capillary zone electrophoresis ultraviolet detection** // Talanta. – 2015. – V. 133. – P. 82–87. doi:[10.1016/j.talanta.2014.04.092](https://doi.org/10.1016/j.talanta.2014.04.092)

Fang F., Zhang N., Liu K., Wu Z. Y. **Hydrodynamic and electrodynamic flow mixing in a novel total glass chip mixer with streamline herringbone pattern** // Microfluidics and Nanofluidics. – 2015. – V. 18. – No. 5. – P. 887–895. doi:[10.1007/s10404-014-1479-7](https://doi.org/10.1007/s10404-014-1479-7)

Garmaeva L. L., Nikolaeva I. G., Nikolaeva G. G., Tsybiktarova L. P. **Vitamin B Content in Rhaponticum uniflorum** // Chemistry of Natural Compounds. – 2015. – V. 51. – No. 5. – P. 978–979. doi:[10.1007/s10600-015-1468-4](https://doi.org/10.1007/s10600-015-1468-4)

Gomez F. J. V., Hernández I. G., Cerutti S., Silva M. F. **Solid phase extraction/cyclodextrin-modified micellar electrokinetic chromatography for the analysis of melatonin and related indole compounds in plants** // Microchemical Journal. – 2015. – V. 123. – P. 22–27. doi:[10.1016/j.microc.2015.05.013](https://doi.org/10.1016/j.microc.2015.05.013)

Hasheminasab K. S., Fakhari A. R. **Application of nonionic surfactant as a new method for the enhancement of electromembrane extraction performance for determination of basic drugs in biological samples** // Journal of Chromatography A. – 2015. – V. 1378. – P. 1–7. doi:[10.1016/j.chroma.2014.11.061](https://doi.org/10.1016/j.chroma.2014.11.061)

Ioutsi A., Shapovalova E., Prokhorova A., Shpigun

- O. Layer-by-layer assembly of polysaccharides and 6,10-ionene for separation of nitrogen-containing pharmaceuticals and their enantiorecognition by capillary electrophoresis // Journal of Chemistry.** – 2015. – V. 2015. – Article ID 836076. doi:10.1155/2015/836076
- Kamanin S. S., Arlyapov V. A., Machulin A. V., Alferov V. A., Reshetilov A. N. **Biosensors based on modified screen-printed enzyme electrodes for monitoring of fermentation processes // Russian Journal of Applied Chemistry.** – 2015. – V. 88. – No. 3. – P. 463–472. doi:10.1134/S1070427215030167
- Kamentsev M. Y., Mamedova S. N., Moskvin L. N., Yakimova N. M. **Determination of chloride and sulfate ions in high-purity water by capillary electrophoresis // Journal of Analytical Chemistry.** – 2015. – V. 70. – No. 2. – P. 193–197. doi:10.1134/S1061934814120077
- Kamencev M., Yakimova N., Moskvin L., Kuchumova I., Tkach K., Malinina Yu., Tungusov O. **Isotopic separation of lithium ions by capillary zone electrophoresis // Electrophoresis.** – 2015. – V. 36. – No. 24. – P. 3014–3017. doi:10.1002/elps.201500399
- Khalilova E. A., Kotenko S. Ts., Islammagomedova E. A., Aliverdieva D. A. **Carboxylic acids of *Saccharomyces cerevisiae* grown in different culture media // International Journal of Research Studies in Science, Engineering and Technology.** – 2015. – V. 2. – No. 8. – P. 62–70. URL <http://ijrset.org/pdfs/v2-i8/9.pdf>
- Kolobova E. A., Kartsova L. A., Bessonova E. A. **Application of ionic liquids based on imidazole to the electrophoretic determination of amino acids in urine // Journal of Analytical Chemistry.** – 2015. – V. 70. – No. 11. – P. 1354–1359. doi:10.1134/S1061934815110076
- Kushnereva E. V. **Formation of biogenic amines in wine production // Applied Biochemistry and Microbiology.** – 2015. – V. 51. – No. 1. – P. 108–112. doi:10.1134/S0003683815010081
- Ma T., Li Z., Niu Q., Li Y., Zhou W. **Double dispersant-assisted ionic liquid dispersive liquid–liquid microextraction coupled with capillary electrophoresis for the determination of benzophenone-type ultraviolet filters in sunscreen cosmetic product // Electrophoresis.** – 2015. – V. 36. – N. 20. – P. 2530–2537. doi:10.1002/elps.201500004
- Moskvin L. N., Yakimova N. M. **Determination of trace amounts of Pd(II), Pt(IV), and Ir(IV) chlorocomplexes by capillary electrophoresis with extraction-chromatographic preconcentration // Journal of Analytical Chemistry.** – 2015. – V. 70. – No. 6. – P. 765–769. doi:10.1134/S1061934815060088
- Moskovskaya I. F., Maerle A. A., Shvydkiy N. V., Romanovsky B. V., Ivanova I. I. **Cobalt pivalate complex as a catalyst for liquid phase oxidation of n-hexane // Russian Journal of Physical Chemistry A.** – 2015. – V. 89. – No. 9. – P. 1519–1522.
- doi:10.1134/S0036024415090241
- Naiden S. V., Kartsova L. A., Emel'yanov G. A. **A new fluorinated polymer as a modifier for liquid chromatography and capillary electrophoresis // Journal of Analytical Chemistry.** – 2015. – V. 70. – No. 6. – P. 752–756. doi:10.1134/S106193481506009X
- Ostroushko A. A., Danilova I. G., Gette I. F., Tonkushina M. O. **Behavior of associates of keplerate-type porous spherical Mo₇₂Fe₃₀ clusters with metal cations in electric field-driven ion transport // Russian Journal of Inorganic Chemistry.** – 2015. – V. 60. – No. 4. – P. 500–504. doi:10.1134/S003602361504018X
- Pakhomova O. A., Mokshina N. Ya., Minakov D. A. **The analysis of the aromatic amino acids interaction with poly-N-vinylpyrrolidone using UV and IR spectroscopy // Indian Journal of Science and Technology.** – 2015. – V. 8. – No. s10. doi:10.17485/ijst/2015/v8i510/84882
- Popovicheva O. B., Kireeva E. D., Shonija N. K., Vojtisek-Lom M., Schwarz J. **FTIR analysis of surface functionalities on particulate matter produced by off-road diesel engines operating on diesel and biofuel // Environmental Science and Pollution Research.** – 2015. – V. 22. – No. 6. – P. 4534–4544. doi:10.1007/s11356-014-3688-8
- Revin V. V., Gromova N. V., Revina E. S., Mel'nikova N. A., Balykova L. A., Solomadin I. N., Tychkov A. Yu., Revina N. V., Gromova O. Yu., Anashkina I. V., Yakushkin V. A. **Study of the structure, oxygen-transporting functions, and ionic composition of erythrocytes at vascular diseases // BioMed Research International.** – 2015. – V. 2015. – Paper ID 973973. doi:10.1155/2015/973973
- Sizova E., Yausheva E., Kosyan D., Miroshnikov S. **Growth enhancement by intramuscular injection of elemental iron nano-and microparticles // Modern Applied Science.** – 2015. – V. 9. – No. 10. – P. 17–26. doi:10.5539/mas.v9n10p17
- Strus O. Ye. **The study of amino acid composition of sapropel by the capillary electrophoresis method // News of Pharmacy (Kharkiv).** – 2015. – No. 2 (82). – P. 12–16. URL http://nbuv.gov.ua/UJRN/VPhC_2015_2_5
- Subbotina M. A., Dolgolyuk I. V. **Study of composition and biological value of pinon kernel of Siberian pine // Foods and Raw materials.** – 2015. – V. 3. – No. 1. – P. 56–61. doi:10.12737/11238
- Tabani H., Khodaei K., Bide Y., Zare F. D., Mirzaei S., Fakhari A. R. **Application of pH-sensitive magnetic nanoparticles microgel as a sorbent for the preconcentration of phenoxy acid herbicides in water samples // Journal of Chromatography A.** – 2015. – V. 1407. – P. 21–29. doi:10.1016/j.chroma.2015.06.057
- Tabani H., Mahyari M., Sahragard A., Fakhari A. R., Shaabani A. **Evaluation of sulfated maltodextrin as a novel anionic chiral selector for the enantioseparation of basic chiral drugs by capillary electrophoresis // Electrophoresis.** – 2015. – V. 36. –

No. 2. – P. 305–311. doi:[10.1002/elps.201400370](https://doi.org/10.1002/elps.201400370)
Timofeeva I., Khubaibullin I., Kamencev M.,
Moskvin A., Bulatov A. **Automated procedure
for determination of ammonia in concrete with
headspace single-drop micro-extraction by stepwise
injection spectrophotometric analysis** // Talanta.
– 2015. – V. 133. – P. 34–37. doi:[10.1016/j.talanta.2014.04.081](https://doi.org/10.1016/j.talanta.2014.04.081)

Trineeva O. V., Safonova E. F., Sinkevich A. V., Slivkin
A. I. **Assay of amino acids in medicinal plants by
TLC (using stinging nettle leaves and common sea
buckthorn fruits as examples)** // Pharmaceutical
Chemistry Journal. – 2015. – V. 49. – No. 5. – P. 323–
328. doi:[10.1007/s11094-015-1278-9](https://doi.org/10.1007/s11094-015-1278-9)

Vakh C., Freze E., Pochivalov A., Evdokimova E.,
Kamencev M., Moskvin L., Bulatov A. **Simultaneous
determination of iron(II) and ascorbic acid in
pharmaceuticas based on flow sandwich technique**
// Journal of Pharmacological and Toxicological
Methods. – 2015. – V. 73. – P. 56–62. doi:[10.1016/j.vascn.2015.03.006](https://doi.org/10.1016/j.vascn.2015.03.006)

Wang H., Feng W., Jia Q. **A graphene oxide
functionalized with 3-aminophenylboronic acid
for the selective enrichment of nucleosides, and
their separation by capillary electrophoresis** //
Microchimica Acta. – 2015. – V. 182. – N. 1. – P.
185–192. doi:[10.1007/s00604-014-1316-4](https://doi.org/10.1007/s00604-014-1316-4)

Wu Y., Zhang W., Chen Y., Chen Z. **Electroosmotic
pump-supported molecularly imprinted monolithic
column for capillary chromatographic separation
of nitrophenol isomers** // Electrophoresis. – 2015.
– V. 36. – No. 23. – P. 2881–2887. doi:[10.1002/elps.201500085](https://doi.org/10.1002/elps.201500085)

Xu L., Luan F., Liu H., Gao Y. **Dispersive liquid–liquid
microextraction combined with non-aqueous
capillary electrophoresis for the determination of
imazalil, prochloraz and thiabendazole in apples,
cherry tomatoes and grape juice** // Journal of the
Science of Food and Agriculture. – 2015. – V. 95. –
No. 4. – P. 745–751. doi:[10.1002/jsfa.6834](https://doi.org/10.1002/jsfa.6834)

Yaroshenko I., Kirsanov D., Kartsova L., Sidorova
A., Borisova I., Legin A. **Determination of urine
ionic composition with potentiometric multisensor
system** // Talanta. – 2015. – V. 131. – P. 556–561.
doi:[10.1016/j.talanta.2014.08.030](https://doi.org/10.1016/j.talanta.2014.08.030)

Zhdanov A. A., Shuvaeva O. V. **A study of complex
phosphovanadomolybdates $[PV_xMo_{12-x}O_{40}]^{-(3+x)}$
by reversed-phase HPLC and capillary zone
electrophoresis** // Journal of Analytical Chemistry. –
2015. – V. 70. – No. 6. – P. 757–764. doi:[10.1134/S1061934815060192](https://doi.org/10.1134/S1061934815060192)

Zhuravko A. S., Kononova N. V., Bobruskin A. I.
**Features of the solubilization of interferon beta-
1B from inclusion bodies** // Russian Journal of
Bioorganic Chemistry. – 2015. – V. 41. – No. 4. – P.
357–363. doi:[10.1134/S1068162015040159](https://doi.org/10.1134/S1068162015040159)

Zykova I. V., Isakov V. A., Panov V. P. **Stability of
complex compounds of metals with the major
organic components of sludges in biological
treatment of wastewaters from different plants,
including synthetic fiber plants** // Fibre Chemistry. –
2015. – V. 47. – No. 3. – P. 215–219. doi:[10.1007/s10692-015-9668-z](https://doi.org/10.1007/s10692-015-9668-z)

2015. – V. 47. – No. 3. – P. 215–219. doi:[10.1007/s10692-015-9668-z](https://doi.org/10.1007/s10692-015-9668-z)

2016

Afiatullov E. K., Chapko T. A., Speshilova A. I.,
Babushkina A. S., Ryzhova T. L. **Use of capillary
electrophoresis for analytical control of phthalate
and acetate ions in the circulated water in
the synthesis of lead(II) nickel(II) phthalate** //
Russian Journal of General Chemistry. – 2016.
– V. 86. – No. 6. – P. 1484–1485. doi:[10.1134/S1070363216060426](https://doi.org/10.1134/S1070363216060426)

Azarin K. V., Alabushev A. V., Usatov A. V., Kostylev
P. I., Kolokolova N. S., Usatova O. A. **Effects of salt
stress on ion balance at vegetative stage in rice
(*Oryza sativa* L.)** // OnLine Journal of Biological
Sciences. – 2016. – V. 16. – No. 1. – P. 76–81.
doi:[10.3844/ojbsci.2016.76.81](https://doi.org/10.3844/ojbsci.2016.76.81)

Ba D., Wang D., Liu K., Hao M., Du G., Ba Y., Zhu T., Wu
Z. **Nanofluidic chips for bio-molecules manipulation
controlled by back electrodes enclosed with
glass and polydimethylsiloxane** // Journal of
Computational and Theoretical Nanoscience. – 2016.
– V. 13. – No. 4. – P. 2237–2244. doi:[10.1166/jctn.2016.4567](https://doi.org/10.1166/jctn.2016.4567)

Bagheri H., Fakhari A. R., Sahragard A. **A
novel strategy based on surfactant assisted
electromembrane extraction for the determination
of dicamba and 2,4-DB as model herbicides in real
water samples** // RSC Advances. – 2016. – V. 6. –
No. 6. – P. 4843–4849. doi:[10.1039/C5RA23498K](https://doi.org/10.1039/C5RA23498K)

Barciszewska M., Sucha A., Bałabańska S.,
Chmielewski M. K. **Gel electrophoresis in a
polyvinylalcohol coated fused silica capillary for
purity assessment of modified and secondary-
structured oligo- and polyribonucleotides** //
Scientific Reports. – 2016. – V. 6. – Article ID 19437.
doi:[10.1038/srep19437](https://doi.org/10.1038/srep19437)

Bessonova E. A., Kartsova L. A., Gallyamova V. F.
**Effect of 3-methyl-1-cetylimidazolium chloride ionic
liquid on the electrophoretic preconcentration of
steroid hormones** // Journal of Analytical Chemistry.
– 2016. – V. 71. – No. 7. – P. 696–702. doi:[10.1134/S1061934816070042](https://doi.org/10.1134/S1061934816070042)

Bol'shakov D. S., Amelin V. G., Nikeshina T. B.
**Identification and determination of antibacterial
substances in drugs by capillary electrophoresis**
// Journal of Analytical Chemistry. – 2016.
– V. 71. – No. 1. – P. 94–101. doi:[10.1134/S1061934815110039](https://doi.org/10.1134/S1061934815110039)

Bystrianský M., Nir O., Šír M., Honzajková Z., Vurm
R., Hrychová P., Bervic A., van der Bruggen B. **The
presence of ferric iron promotes calcium sulphate
scaling in reverse osmosis processes** // Desalination.
– 2016. – V. 393. – P. 115–119. doi:[10.1016/j.desal.2016.03.003](https://doi.org/10.1016/j.desal.2016.03.003)

Gerasimenko E. O., Butina E. A., Kharchenko S. A.,
Achmiz E. P., Vorontsova O. S. **Prospects of the
“green” technologies of the complex processing
of sunflower seeds** // Research Journal of
Pharmaceutical, Biological and Chemical Sciences.

- 2016. – V. 7. – No. 2. – P. 609–623. URL [http://www.rjpbc.com/pdf/2016_7\(2\)/\[86\].pdf](http://www.rjpbc.com/pdf/2016_7(2)/[86].pdf)
- Gorbunova N., Evteev A., Evdokimov I., Bannikova A. **Kinetics of ascorbic acid transport from alginate beads during in vitro digestion** // Journal of Food & Nutrition Research. – 2016. – V. 55. – No. 2. – P. 148–158. URL <http://www.vup.sk/en/index.php?mainID=2&navID=14>
- Huang L., Chen Y. T., Li Y. X., Yu L. S. **Application of chiral ionic liquid-modified gold nanoparticles in the chiral recognition of amino acid enantiomers** // Applied Spectroscopy. – 2016. – V. 70. – No. 10. – P. 1649–1654. doi:[10.1177/0003702816645353](https://doi.org/10.1177/0003702816645353)
- Kamanin S. S., Arlyapov V. A., Alferov V. A., Reshetilov A. N. **Enzyme-modified screen-printed electrodes for assaying glucose** // Fermentation Technology. – 2016. – V. 5. – No. 1. – Article ID 1000128. doi:[10.4172/2167-7972.1000128](https://doi.org/10.4172/2167-7972.1000128)
- Kamencev M., Komarova N., Morozova O. **Enantioseparation of tartaric and malic acids in wines by ligand exchange capillary electrophoresis using uncoated fused silica capillary** // Chromatographia. – 2016. – V. 79. – No. 13. – P. 927–931. doi:[10.1007/s10337-016-3099-8](https://doi.org/10.1007/s10337-016-3099-8)
- Kamentsev M. Y., Moskvin L. N., Malinina Y., Yakimova N. M., Kuchumova I. D. **Determination of alkylamines in aqueous media by capillary electrophoresis** // Journal of Analytical Chemistry. – 2016. – V. 71. – No. 9. – P. 912–916. doi:[10.1134/S1061934816090100](https://doi.org/10.1134/S1061934816090100)
- Kamencev M., Yakimova N., Moskvin L., Kuchumova I., Tkach K., Malinina Y. **Fast isotopic separation of ¹⁰B and ¹¹B boric acid by capillary zone electrophoresis** // Electrophoresis. – 2016. – V. 37. – No. 22. – P. 3017–3019. doi:[10.1002/elps.201600265](https://doi.org/10.1002/elps.201600265)
- Krasina I. B., Tarasenko N. A. **Features of a chemical composition of dry leaves of Stevia rebaudiana** // Oriental Journal of Chemistry. – 2016. – V. 32. – No. 2. – P. 1171–1180. URL http://www.orientjchem.org/pdf/vol32no2/OJC_Vol32_No2_p_1171-1180.pdf
- Kuraeva Y. G., Kamenskaya A. I., Vasil'eva M. V., Stupnikov A. A., Onuchak L. A. **Capabilities of capillary electrophoresis for the determination of atenolol and bisoprolol** // Journal of Analytical Chemistry. – 2016. – V. 71. – No. 4. – P. 396–401. doi:[10.1134/S1061934816020076](https://doi.org/10.1134/S1061934816020076)
- Ma T., Li Z., Jia Q., Zhou W. **Ultrasound-assisted temperature-controlled ionic liquid emulsification microextraction coupled with capillary electrophoresis for the determination of parabens in personal care products** // Electrophoresis. – 2016. – V. 37. – No. 12. – P. 1624–1631. doi:[10.1002/elps.201500533](https://doi.org/10.1002/elps.201500533)
- Man Y., Shu M., Wang D., Luan F., Liu H., Gao Y. **Determination of 6-benzylaminopurine in bean sprouts by capillary electrophoresis compared with HPLC** // Food Analytical Methods. – 2016. – V. 9. – No. 11. – P. 3025–3031. doi:[10.1007/s12161-016-0496-4](https://doi.org/10.1007/s12161-016-0496-4)
- Markina M., Lebedeva E., Neudachina L., Stozhko N., Brainina K. **Determination of antioxidants in human skin by capillary zone electrophoresis and potentiometry** // Analytical Letters. – 2016. – V. 49. – No. 12. – P. 1804–1815. doi:[10.1080/00032719.2015.1124111](https://doi.org/10.1080/00032719.2015.1124111)
- Masiutin I. A., Novikov A. A., Litvin A. A., Kopitsyn D. S., Beskorovaynaya D. A., Ivanov E. V. **The synthesis of 5-hydroxymethylfurfural from carbohydrates and lignocellulose using an N,N-dimethylacetamide–LiCl solvent system** // Starch – Stärke. – 2016. – V. 68. – No. 7–8. – P. 637–643. doi:[10.1002/star.201500165](https://doi.org/10.1002/star.201500165)
- Minich A. S., Minich I. B., Chursina N. L., Ivanitckiy A. E., Butsenko E. S., Rozhdestvenskiy E. A. **Morphogenesis and productivity of *Cucumis sativus* L. hybrids under the thermic polyethylene films modified by coating of metals by magnetron sputtering** // Horticultural Science. – 2016. – V. 43. – No. 2. – P. 59–66. doi:[10.17221/93/2015-HORTSCI](https://doi.org/10.17221/93/2015-HORTSCI)
- Myagkaya I. N., Lazareva E. V., Gustaytis M. A., Zhmodik S. M. **Gold and silver in a system of sulfide tailings. Part 1: migration in water flow** // Journal of Geochemical Exploration. – 2016. – V. 160. – P. 16–30. doi:[10.1016/j.gexplo.2015.10.004](https://doi.org/10.1016/j.gexplo.2015.10.004)
- Nikonorov V. V., Nikitina T. G. **Capillary electrophoretic determination of silicon in plants** // Microchemical Journal. – 2016. – V. 127. – P. 7–10. doi:[10.1016/j.microc.2016.01.020](https://doi.org/10.1016/j.microc.2016.01.020)
- Nosova Y. N., Foteeva L. S., Zenin I. V., Fetisov T. I., Kirsanov K. I., Yakubovskaya M. G., Popovicheva O. B., Engling G., Diapouli E., Saraga D., Persiantseva N. M., Timofeev M. A., Kireeva E. D., Shonija N. K., Chen S.-H., Nguyen D. L., Eleftheriadis K., Lee C.-T. **Impact of smoke intensity on size-resolved aerosol composition and microstructure during the biomass burning season in Northwest Vietnam** // Aerosol Air Qual. Res. – 2016. – V. 16. – P. 2635–2654. doi:[10.4209/aaqr.2015.07.0463](https://doi.org/10.4209/aaqr.2015.07.0463)
- Senchenko S. P., Nasukhova N. M., Agova L. A., Konovalov D. A. **Use of micellar electrokinetic chromatography to analyze sesquiterpene lactones from *Laurus nobilis* L** // Pharmaceutical Chemistry Journal. – 2016. – V. 50. – No. 5. – P. 320–322. doi:[10.1007/s11094-016-1444-8](https://doi.org/10.1007/s11094-016-1444-8)
- Shelepina N. V., Zelenov A. N., Bolshakova L. S. **Amino acid composition and biological value of protein of new pea morphotypes** // Indian Journal of Science and Technology. – 2016. – V. 9. – No. 5. doi:[10.17485/ijst/2016/v9i5/87612](https://doi.org/10.17485/ijst/2016/v9i5/87612)
- Shu M., Man Y., Ma H., Luan F., Liu H., Gao Y. **Determination of vanillin in milk powder by capillary electrophoresis combined with dispersive liquid-liquid microextraction** // Food Analytical Methods. – 2016. – V. 9. – No. 6. – P. 1706–1712. doi:[10.1007/s12161-015-0347-8](https://doi.org/10.1007/s12161-015-0347-8)
- Sizova E. A., Miroshnikov S. A., Lebedev S. V., Kudasheva A. V., Ryabov N. I. **To the development of innovative mineral additives based on alloy of Fe and Co antagonists as an example** // Agricultural Biology. – 2016. – V. 51. – No. 4. – P. 553–562. doi:[10.15389/agrobiology.2016.4.553eng](https://doi.org/10.15389/agrobiology.2016.4.553eng)
- Smoleń S., Skoczylas Ł., Ledwożyw-Smoleń I.,

Rakoczy R., Kopeć A., Piątkowska E., Bieżanowska-Kopeć R., Pysz M., Koronowicz A., Kapusta-Duch J., Pawłowski T. **Iodine and selenium biofortification of lettuce (*Lactuca sativa* L.) by soil fertilization with various compounds of these elements** // Acta Scientarium Polonorum. Hortorum Cultus. – 2016. – V. 15. – No. 5. – P. 69–91. URL <http://www.acta.media.pl/pl/main.php?s=7&no=565&p=21&id=5006&lang=pl>

Tascón M., Benavente F., Vizioli N. M., Gagliardi L. G. **A rapid and simple method for the determination of psychoactive alkaloids by CE-UV: application to *Peganum Harmala* seed infusions** // Drug Testing and Analysis. – 2016. (Early view publication). doi:10.1002/dta.1989

Tascon M., Benavente F., Castells C. B., Gagliardi L. G. **Quality criterion to optimize separations in capillary electrophoresis: Application to the analysis of harmala alkaloids** // Journal of Chromatography A. – 2016. – V. 1460. – P. 190–196. doi:10.1016/j.jchroma.2016.07.032

Usatov A. V., Alabushev A. V., Kostylev P. I., Azarin K. V., Makarenko M. S., Usatova O. A. **Introgression the SalTol QTL into the elite rice variety of Russia by marker-assisted selection** // American Journal of Agricultural and Biological Sciences. – 2016. – V. 10. – No. 4. – P. 165–169. doi:10.3844/ajabssp.2015.165.169

Wang D., Man R., Shu M., Liu H., Gao Y., Luan F. **Detection of sibutramine and phenolphthalein in functional foods using capillary electrophoresis** // Analytical Methods. – 2016. – V. 8. – No. 3. – P. 621–626. doi:10.1039/C5AY02973B

Yaroshenko I., Kirsanov D., Kartsova L., Sidorova A., Sun Q., Wan H., He Y., Wang P., Legin A. **Exploring bitterness of traditional Chinese medicine samples by potentiometric electronic tongue and by capillary electrophoresis and liquid chromatography coupled to UV detection** // Talanta. – 2016. – V. 152. – P. 105–111. doi:10.1016/j.talanta.2016.01.058

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