

List of scientific publications. 2000–2023

This document contains a bibliography of selected scientific articles, in which the «Capel» capillary electrophoresis systems were used as measuring instruments. The documents were published in 2000–2023 in English, Portuguese and Spanish.

2023

1. Abasheeva K. D., Demakov P. A., Polyakova E. V., Lavrov A. N., Fedin V. P., Dybtsev D. N. **Synthesis, structural versatility, magnetic properties, and I- adsorption in a series of cobalt (II) metal-organic frameworks with a charge-neutral aliphatic (O,O)-donor bridge** // *Nanomaterials*. – 2023. – V. 13. – No. 20. – Article ID 2773. <https://doi.org/10.3390/nano13202773>
2. Abramova E., Popova N., Artemiev G., Boldyrev K., Kazakov K., Kryuchkov D., Safonov A. **Biological factors affecting the evolution of safety barrier materials in the Yeniseisky deep geological repository** // *Engineering Geology*. – 2023. – V. 312. – Article ID 106931. <https://doi.org/10.1016/j.enggeo.2022.106931>
3. Alawadi M., Fakhari A. R., Bayatloo M. R., Nojavan S. **Carboxymethylated maltodextrin as a chiral selector for the separation of some basic drug enantiomers using capillary electrophoresis** // *Journal of Chromatography A*. – 2023. – V. 1708. – Article ID 464335. <https://doi.org/10.1016/j.chroma.2023.464335>
4. Artemiev G., Safonov A. **Authigenic mineral formation in aquifers near the uranium sludge storage facility of chepetsky mechanical plant during the formation of a biogeochemical barrier in a laboratory and field experiment** // *Minerals*. – 2023. – V. 13. – No. 10. – Article ID 1319. <https://doi.org/10.3390/min13101319>
5. Banco A. P., Puertas C. M., Trentacoste E. R., Gariglio N. F., Jofré V. P. **Promising olive varieties for extra virgin oil production in Mendoza, Argentina** // *Journal of the Saudi Society of Agricultural Sciences*. – 2023. – V. 21. – No. 1. – P. 62–70. <https://doi.org/10.1016/j.jssas.2022.06.003>
6. Boguslavsky A., Shvartseva O., Popova N., Safonov A. **Biogeochemical in situ barriers in the aquifers near uranium sludge storages** // *Water*. – 2023. – V. 15. – No. 17. – Article ID 3020. <https://doi.org/10.3390/w15173020>
7. Botchkova E., Vishnyakova A., Popova N., Sukhacheva M., Kolganova T., Litt Y., Safonov A. **Characterization of enrichment cultures of anammox, nitrifying and denitrifying bacteria obtained from a cold, heavily nitrogen-polluted aquifer** // *Biology*. – 2023. – V. 12. – No. 2. – Article ID 221. <https://doi.org/10.3390/biology12020221>
8. Crucirescu D. **Implementation of apple acidifier in canned cucumbers production** // *Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry*. – 2023. – V. 24. – No. 1. – P. 61–71. <https://pubs.up.ro/?pg=revues&rev=csc6&num=202301&vol=1&aid=5533>
9. Gatreddi S., Urdiain-Arraiza J., Desguin B., Hausinger R. P., Hu J. **Structural and mutational characterization of a malate racemase from the LarA superfamily** // *BioMetals*. – 2023. – V. 36. – No. 2. – P. 303–313. <https://doi.org/10.1007/s10534-022-00372-x>
10. Khalafyan A., Temerdashev Z., Abakumov A., Yakuba Y., Sheludko O., Kaunova A. **Multidimensional analysis of the interaction of volatile compounds and amino acids in the formation of sensory properties of natural wine** // *Heliyon*. – 2023. – V. 9. – No. 1. – Article ID e12814. <https://doi.org/10.1016/j.heliyon.2023.e12814>
11. Khailova L. S., Krasnov V. S., Kirsanov R. S., Popova L. B., Tashlitsky V. N., Kotova E. A., Antonenko Y. N. **The transient character of mitochondrial uncoupling by the popular fungicide fluazinam is specific for liver** // *Archives of Biochemistry and Biophysics*. – 2023. – V. 746. – Article ID 109735. <https://doi.org/10.1016/j.abb.2023.109735>
12. Kovshova T., Mantrov S., Boiko S., Malinovskaya J., Merkulova M., Osipova N., Moiseeva N., Akimov M., Dudina P., Senchikhin I., Ermolenko Yu., Gelperina S. **Co-delivery of paclitaxel and etoposide prodrug by human serum albumin and PLGA nanoparticles: synergistic cytotoxicity in brain tumour cells** // *Journal of Microencapsulation*. – 2023. – V. 40. – No. 4. – P. 246–262. <https://doi.org/10.1080/02652048.2023.2188943>
13. Kravchenko A. V., Kolobova E. A., Kechin A. A., Kartsova L. A. **Development of a capillary electrophoretic method for determination of ketorolac enantiomers in human plasma using cationic β -cyclodextrin derivative as a chiral selector** // *Journal of Separation Science*. – 2023. – V. 46. – No. 2. – Article ID 2200601. <https://doi.org/10.1002/jssc.202200601>
14. Litt Y. V., Botchkova E. A., Serdyukov D. V., Chekashev V. V. **Structure of the microbial community of the biological wastewater treatment plant of a pig farm and storage pond** // *Nanobiotechnology Reports*. – 2023. – V. 18. – No. 3. – P. 506–514. <https://doi.org/10.1134/S2635167623700374>
15. Loiko N., Kanunnikov O., Litt Y. **Use of *Alcaligenes faecalis* to reduce coliforms and enhance the stabilization of faecal sludge** // *Sustainability*. – 2023. – V. 15. – No. 16. – Article ID 12580. <https://doi.org/10.3390/su151612580>
16. Myasnikov I., Artemiev G., Lavrinovich E., Kazinskaya I., Novikov A., Safonov A. **Simple and complex substrates (sugar, acetate and milk whey) for in situ bioremediation of groundwater with nitrate and actinide contamination** // *Hydrology*. – 2023. – V. 10. – No. 8. – Article ID 175. <https://doi.org/10.3390/hydrology10080175>

17. Panarin V., Sosnin E., Ryabov A., Skakun V., Kudryashov S., Sorokin D. **Comparative effect of the type of a pulsed discharge on the ionic speciation of plasma-activated water** // *Technologies*. – 2023. – V. 11. – No. 2. – Article ID 41. <https://doi.org/10.3390/technologies11020041>
18. Pasechnaya E., Tsygurina K., Ponomar M., Chuprynina D., Nikonenko V., Pismenskaya N. **Comparison of the electro dialysis performance in tartrate stabilization of a redwine using aliphatic and aromatic commercial and modified ion-exchange membranes** // *Membranes*. – 2023. – V. 13. – Article ID 84. <https://doi.org/10.3390/membranes13010084>
19. Poluboyarinov P. A., Kuznetsova A. V., Moiseeva I. Y., Mikulyak N. I., Kaplun A. P. **Induction of antioxidant activity by selenium compounds in the *Aspergillus niger* mycelium** // *Russian Journal of Bioorganic Chemistry*. – 2023. – V. 49. – No. 4. – P. 823–835. <https://doi.org/10.1134/S1068162023040155>
20. Pootthachaya P., Puangsap W., Bunchalee P., Plangklang P., Reungsang A., Yuangsoi B., Cherdthong A., Tengjaroenkul B., Wongtangintharn S. **Investigation of nutritional profile, protein solubility and in vitro digestibility of various algae species as an alternative protein source for poultry feed** // *Algal Research*. – 2023. – V. 72. – Article ID 103147. <https://doi.org/10.1016/j.algal.2023.103147>
21. Popova N., Artemiev G., Zinicovscaia I., Yushin N., Demina L., Boldyrev K., Sobolev D., Safonov A. **Biogeochemical permeable barrier based on zeolite and expanded clay for immobilization of metals in groundwater** // *Hydrology*. – 2023. – V. 10. – No. 1. – Article ID 4. <https://doi.org/10.3390/hydrology10010004>
22. Sahragard A., Fakhari A. R., Hasheminasab K. S., Aladaghlo Z. **Application of carbon nanotubes assisted electromembrane extraction technique followed with capillary electrophoresis for sensitive determination of cocaine in wastewater and biological samples** // *Journal of the Iranian Chemical Society*. – 2023. – V. 20. – No. 1. – P. 37–46. <https://doi.org/10.1007/s13738-022-02642-4>
23. Ulianova Yu., Ermolenko Yu., Tkachenko S., Trukhan V., Morozov A., Gelperina S. **Tuning the release rate of rilpivirine from PLGA-based in situ forming implants** // *Polymer Bulletin*. – 2023. – V. 80. – P. 11401–11420. <https://doi.org/10.1007/s00289-022-04623-2>
24. Ushakova E., Drobinina E., Puzik A., Mikheev P. **Impact of wastewater on water quality and fish community in the Tolych River, Perm Krai, Russia** // *Pollution*. – 2023. – V. 9. – No. 2. – P. 459–476. <https://doi.org/10.22059/poll.2022.345916.1556>
25. Yang L., Zhang W., Xu W. **Efficient protein conformation dynamics characterization enabled by mobility-mass spectrometry** // *Analytica Chimica Acta*. – 2023. – V. 1243. – Article ID 340800. <https://doi.org/10.1016/j.aca.2023.340800>
26. Zhang W., Hong J., Yang L., Xu Z., Xiang Y., Xu W. **Resolving the geometric structure of trastuzumab by mobility capillary electrophoresis and native mass spectrometry** // *Chinese Chemical Letters*. – 2023. – V. 35. – No. 3. – Article ID 108695. <https://doi.org/10.1016/j.cclet.2023.108695>
27. Ziganshina E. E., Mohammed W. S., Ziganshin A. M. **Microbial diversity of the produced waters from the oilfields in the Republic of Tatarstan (Russian Federation): Participation in biocorrosion** // *Applied Sciences*. – 2023. – V. 13. – No. 24. – Article ID 12984. <https://doi.org/10.3390/app132412984>
28. Zimina T., Sitkov N., Karasev V., Skorik Y., Kolobov A., Kolobov A., Bunenkov N., Luchinin V. **Design of peptide ligand for lactoferrin and study of its binding specificity** // *Chemosensors*. – 2023. – V. 11. – No. 3. – Article ID 162. <https://doi.org/10.3390/chemosensors11030162>

2022

29. Babich O., Dolganyuk V., Andreeva A., Katsarov D., Matskova L., Ulrikh E., Ivanova S., Michaud P., Sukhikh S. **Isolation of valuable biological substances from microalgae culture** // *Foods*. – 2022. – V. 11. – No. 11. – Article ID 1654. <https://doi.org/10.3390/foods11111654>
30. Bortnikova S. B., Yurkevich N. V., Volynkin S. S., Kozlov A. S., Makas A. L. **Evidence of volatility metals and metalloids at environment conditions** // *Applied Sciences*. – 2022. – V. 12. – No. 19. – Article ID 9942. <https://doi.org/10.3390/app12199942>
31. Bryanskaya A. V., Shipova A. A., Rozanov A. S., Kolpakova O. A., Lazareva E. V., Uvarova Y. E., Efimov V. M., Zhmodik S. M., Taran O. P., Goryachkovskaya T. N., Peltek S. E. **Diversity and metabolism of microbial communities in a hypersaline lake along a geochemical gradient** // *Biology*. – 2022. – V. 11. – No. 4. – Article ID 605. <https://doi.org/10.3390/biology11040605>
32. Bryk A. A., Blagonravov M. L., Goryachev V. A., Chibisov S. M., Azova M. M., Syatkin S. P. **Daytime exposure to blue light alters cardiovascular circadian rhythms, electrolyte excretion and melatonin production** // *Pathophysiology*. – 2022. – V. 29. – No. 1. – P. 118–133. <https://doi.org/10.3390/pathophysiology29010011>
33. Demenev A., Maksimovich N., Khmurchik V., Rogovskiy G., Rogovskiy A., Baryshnikov A. **Field test of in situ groundwater treatment applying oxygen diffusion and bioaugmentation methods in an area with sustained total petroleum hydrocarbon (TPH) contaminant flow** // *Water*. – 2022. – V. 14. – No. 2. – Article ID 192. <https://doi.org/10.3390/w14020192>
34. El-Sohaimy S. A., Androsova N. V., Toshev A. D., El Enshasy H. A. **Nutritional quality, chemical, and functional characteristics of hemp (*Cannabis sativa* ssp. *sativa*) protein isolate** // *Plants*. – 2022. – V. 11. – No. 21. – Article ID 2825. <https://doi.org/10.3390/plants11212825>
35. Ermolenko Y., Nazarova N., Belov A., Kalistratova A., Ulyanova Y., Osipova N., Gelperina S. **Potential of the capillary electrophoresis method for PLGA analysis in nano-sized drug formulations** // *Journal of Drug Delivery Science and Technology*. – 2022. – V. 70. – Article ID 103220. <https://doi.org/10.1016/j.jddst.2022.103220>
36. Evdokimova S. A., Karetkin B. A., Guseva E. V., Gordienko M. G., Khabibulina N. V., Panfilov V. I., Menshutina N. V., Gradova N. B. **A study and modeling of Bifidobacterium and Bacillus coculture continuous fermentation under distal intestine simulated conditions** // *Microorganisms*. – 2022. – V. 10. – No. 5. – Article ID 929. <https://doi.org/10.3390/microorganisms10050929>

37. Foteeva L. S., Nosova Y. N., Nazarov A. A., Keppler B. K., Timerbaev A. R. **Versatile analytical methodology for evaluation of drug-like properties of potentially multi-targeting anticancer metallodrugs** // Analytical Sciences. – 2022. – V. 38. – No. 3. – P. 627–632. <https://doi.org/10.1007/s44211-022-00076-9>
38. Garibyan A., Delyagina E., Agafonov M., Khodov I., Terekhova I. **Effect of pH, temperature and native cyclodextrins on aqueous solubility of baricitinib** // Journal of Molecular Liquids. – 2022. – V. 360. – Article ID 119548. <https://doi.org/10.1016/j.molliq.2022.119548>
39. Golubkina N., Logvinenko L., Konovalov D., Garsiya E., Fedotov M., Alpatov A., Shevchuk O., Skrypnik L., Sekara A., Caruso G. **Foliar application of selenium under nano silicon on Artemisia annua: Effects on yield, antioxidant status, essential oil, artemisinin content and mineral composition** // Horticulturae. – 2022. – V. 8. – No. 7. – Article ID 597. <https://doi.org/10.3390/horticulturae8070597>
40. Gottardo R., Taus F., Pigaiani N., Bortolotti F., Lonati D., Scaravaggi G., Locatelli C. A., Tagliaro F. **Intentional and unintentional nitrite intoxications: A novel diagnostic strategy based on the direct ion determination by capillary electrophoresis** // Toxicologie Analytique et Clinique. – 2022. – V. 34. – No. 3. – Supplement. – P. S26. <https://doi.org/10.1016/j.toxac.2022.06.016>
41. Ivanov A. V., Popov M. A., Aleksandrin V. V., Kozhevnikova L. M., Moskovtsev A. A., Kruglova M. P., Silina E. V., Stupin V. A., Kubatiev A. A. **Determination of glutathione in blood via capillary electrophoresis with pH-mediated stacking** // Electrophoresis. – 2022. – V. 43. – No. 18–19. – P. 1859–1870. <https://doi.org/10.1002/elps.202200119>
42. Kartsova L. A., Moskvichev D. O. **In-capillary chiral derivatization of amino acids** // Journal of Analytical Chemistry. – 2022. – V. 77. – No. 5. – P. 618–624. <https://doi.org/10.1134/S1061934822050057>
43. Khalafallah T. O., Eldoor A. A. A., Babker A. MA, Bin Shaya A. S., Alfahed A., Alharithi N. S., Aloraini G. S., Waggiallah H. A. **Hematological and molecular analyses of the HbS allele among the Sudanese population** // Journal of International Medical Research. – 2022. – Vol. 50. – No. 9. – Paper 1–9. <https://doi.org/10.1177/03000605221125050>
44. Khilazheva E. D., Lychkovskaya E. V., Kutyakov V. A., Morgun A. V., Salmin V. V. **In vitro effects of plasma acid on proliferation of rat brain endothelial cells** // Journal of Evolutionary Biochemistry and Physiology. – 2022. – V. 58. – No. 4. – P. 1163–1173. <https://doi.org/10.1134/S0022093022040196>
45. Khromova N. Y., Epishkina J. M., Karetkin B. A., Khabibulina N. V., Beloded A. V., Shakir I. V., Panfilov V. I. **The combination of in vitro assessment of stress tolerance ability, autoaggregation, and vitamin B-producing ability for new probiotic strain introduction** // Microorganisms. – 2022. – V. 10. – No. 2. – Article ID 470. <https://doi.org/10.3390/microorganisms10020470>
46. Kizatova M., Azimova S., Iskakova G., Kozhanova K., Zheterova S., Ibadullayeva G. **Catalytic removal of heavy metals from waste water by pumpkin pectin-containing nanomaterials-based enzyme** // Journal of Nanostructures. – 2022. – V. 12. – No. 1. – P. 123–135. <https://doi.org/10.22052/JNS.2022.01.012>
47. Klindukh M., Ryzhik I., Makarov M. **Changes in physiological and biochemical parameters of Barents Sea Fucus vesiculosus Linnaeus 1753 in response to low salinity** // Aquatic Botany. – 2022. – V. 176. – Article ID 103469. <https://doi.org/10.1016/j.aquabot.2021.103469>
48. Kubczak M., Khassenova A. B., Skalski B., Michlewska S., Wielanek M., Skłodowska M., Aralbayeva A. N., Nabiyeva Z. S., Murzakhmetova M. K., Zamaraeva M., Bryszewska M., Ionov M. **Hippophae rhamnoides L. leaf and twig extracts as rich sources of nutrients and bioactive compounds with antioxidant activity** // Scientific Reports. – 2022. – V. 12. – No. 1. – Article ID 1095. <https://doi.org/10.1038/s41598-022-05104-2>
49. Kurbatova S. A., Yershov I. Y., Otyukova N. G., Stroynov Y. V., Borisovskaya E. V. **Aquatic plants during decomposition as an environment-forming factor for zooplankton: An experiment in microcosms** // Contemporary Problems of Ecology. – 2022. – V. 15. – No. 2. – P. 147–159. <https://doi.org/10.1134/S1995425522020068>
50. Kuznetsova Y. V., Permyakova I. A. **Recovery of nitrogen and phosphorus in processing of aqueous production wastes by precipitation of struvite using an active intermediate as a reagent** // Russian Journal of Applied Chemistry. – 2022. – V. 95. – No. 4. – P. 588–601. <https://doi.org/10.1134/S1070427222040164>
51. Larder C. E., Iskandar M. M., Sabally K., Kubow S. **Complementary and efficient methods for di- and tri-peptide analysis and amino acid quantification from simulated gastrointestinal digestion of collagen hydrolysate** // LWT. – 2022. – V. 155. – Article ID 112880. <https://doi.org/10.1016/j.lwt.2021.112880>
52. Litt Y. V., Potekhina M. A., Zhuravleva E. A., Vishnyakova A. V., Gruzdev D. S., Kovalev A. A., Kovalev D. A., Katraeva I. V., Parshina S. N. **Dark fermentative hydrogen production from simple sugars and various wastewaters by a newly isolated Thermoanaerobacterium thermosaccharolyticum SP-H2** // International Journal of Hydrogen Energy. – 2022. – V. 47. – No. 58. – P. 24310–24327. <https://doi.org/10.1016/j.ijhydene.2022.05.235>
53. Losev V., Didukh-Shadrina S., Orobyeva A., Borodina E., Elzuf'ev E., Metelitsa S., Ondar U. **Speciation of inorganic selenium in natural water by in situ solid-phase extraction using functionalized silica** // Analytical Methods. – 2022. – V. 14. – No. 28. – P. 2771–2781. <https://doi.org/10.1039/D2AY00903J>
54. Manaenkov O., Kisliitsa O., Ratkevich E., Kosivtsov Y., Sapunov V., Matveeva V. **Hydrolytic oxidation of cellobiose using catalysts containing noble metals** // Reactions. – 2022. – V. 3. – No. 4. – P. 589–601. <https://doi.org/10.3390/reactions3040039>
55. Morozov I., Zakusin S., Kozlov P., Zakusina O., Roshchin M., Chernov M., Boldyrev K., Zaitseva T., Tyupina E., Krupskaya V. **Bentonite–concrete interactions in engineered barrier systems during the isolation of radioactive waste based on the results of short-term laboratory experiments** // Applied Sciences. – 2022. – V. 12. – No. 6. – Article ID 3074. <https://doi.org/10.3390/app12063074>
56. Morozova M. V., Kalmykova G. V., Akulova N. I., Ites Y. V., Korkina V. I., Litvinova E. A. **Autoclaved diet with inactivated spores of Bacillus spp. decreased reproductive performance of Muc2^{-/-} and Muc2^{+/-} mice** // Animals. – 2022. – V. 12. – No. 18. – Article ID 2399. <https://doi.org/10.3390/ani12182399>

57. Muldabekova B. Z., Umirzakova G. A., Assangaliyeva Z. R., Maliktayeva P. M., Zheldybayeva A. A., Yakiyayeva M. A. **Nutritional evaluation of buns developed from chickpea-mung bean composite flour and sugar beet powder** // International Journal of Food Science. – 2022. – V. 2022. – Article ID 6009998. <https://doi.org/10.1155/2022/6009998>
58. 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. – V. 41. – No. 2. – P. 437–457. <https://doi.org/10.1007/s10230-022-00859-6>
59. Nikiforova E. B., Davitavyan N. A., Yakuba Y. F., Ismagilova D. A., Ugrinovich K. A., Nechaeva A. G. **Development of a method for assay of flavonoids and chlorhexidine in medicinal wound-healing pencil formulations** // Pharmaceutical Chemistry Journal. – 2022. – V. 56. – No. 1. – P. 126–130. <https://doi.org/10.1007/s11094-022-02609-y>
60. Othman A. J., Eliseeva L. G., Molodkina P. G., Ibragimova N. A., Duksi F. M. **Dataset on the effect of soaking Kale (Brassica Oleraceae L. var. acephala DC.) seeds in solution based on amorphous silicon dioxide on the bioactive components and physiological growth parameters** // Data in Brief. – 2022. – V. 40. – Article ID 107789. <https://doi.org/10.1016/j.dib.2022.107789>
61. Othman A. J., Vodorezova E. S., Mardini M., Hanana M. B. **Dataset for the content of bioactive components and phytonutrients of (Ocimum basilicum and Brassica rapa) microgreens** // Data in Brief. – 2022. – V. 40. – Article ID 107737. <https://www.sciencedirect.com/science/article/pii/S235234092101012X>
62. Rodionova L. Y., Sobol I. V., Donchenko L. V., Stepovoy A. V., Koshchaev A. G. **Biochemical evaluation of pumpkin varieties** // Sarhad Journal of Agriculture. – 2022. – V. 38. – No. 3. – P. 1026–1034. <https://dx.doi.org/10.17582/journal.sja/2022/38.3.1026.1034>
63. Safonov A., Popova N., Boldyrev K., Lavrinovich E., Boeva N., Artemiev G., Kuzovkina E., Emelyanov A., Myasnikov I., Zakharova E., Novikov A. **The microbial impact on U, Pu, Np, and Am immobilization on aquifer sandy rocks, collected at the deep LRW injection site** // Journal of Geochemical Exploration. – 2022. – V. 240. – Article ID 107052. <https://doi.org/10.1016/j.gexplo.2022.107052>
64. Sahragard A., Fakhari A. R., Hasheminasab K. S., Aladaghlo Z. **Application of carbon nanotubes assisted electromembrane extraction technique followed with capillary electrophoresis for sensitive determination of cocaine in wastewater and biological samples** // Journal of the Iranian Chemical Society. – 2022. <https://doi.org/10.1007/s13738-022-02642-4>
65. Shcherbatykh A. A., Chernov'yants M. S., Popov L. D. **Determination of low molecular thiols and protein sulfhydryl groups using heterocyclic disulfides** // Amino Acids. – 2022. – V. 54. – No. 3. – P. 469–479. <https://doi.org/10.1007/s00726-022-03132-w>
66. Skrypnik L., Feduraev P., Golovin A., Maslennikov P., Belov N., Matveev M., Pungin A. **Biotechnological potential of different organs of mistletoe (Viscum album L.) collected from various host tree species in an urban area** // Plants. – 2022. – V. 11. – No. 20. – Article ID 2686. <https://doi.org/10.3390/plants11202686>
67. Sringarm K., Chaiwang N., Wattanakul W., Mahinchai P., Satsook A., Norkeaw R., Seel-audom M., Moonmanee T., Mekchay S., Sommano S. R., Ruksiriwanich W., Rachtanapun P., Jantanasakulwong K., Arjin C. **Improvement of intramuscular fat in longissimus muscle of finishing Thai crossbred black pigs by perilla cake supplementation in a low-lysine diet** // Foods. – 2022. – V. 11. – No. 7. – Article ID 907. <https://doi.org/10.3390/foods11070907>
68. Sukhikh S., Kalashnikova O., Ivanova S., Prosekov A., Krol O., Kriger O., Fedovskikh N., Babich O. **Evaluating the influence of microbial fermentation on the nutritional value of soybean meal** // Fermentation. – 2022. – V. 8. – No. 9. – Article ID 458. <https://doi.org/10.3390/fermentation8090458>
69. Tananaev N. **Late summer water sources in rivers and lakes of the Upper Yana River basin, Northern Eurasia, inferred from hydrological tracer data** // Hydrology. – 2022. – V. 9. – No. 2. – Article ID 24. <https://doi.org/10.3390/hydrology9020024>
70. Torshin I. Y., Gromova O. A., Ostrenko K. S., Filimonova M. V., Gogoleva I. V., Demidov V. I., Kalacheva A. G. **Lithium ascorbate as a promising neuroprotector: fundamental and experimental studies of an organic lithium salt** // Molecules. – 2022. – V. 27. – No. 7. – Article ID 2253. <https://doi.org/10.3390/molecules27072253>
71. Vagner V. D., Sarf E. A., Belskaya L. V., Korshunov A. S., Kuryatnikov K. N., Bondar A. A., Meloyan A. D., Maksimenko A. D., Kasiy M. N. **Prognostic significance of oral fluid fluoride measurement in acute pericoronitis** // Bulletin of Russian State Medical University. – 2022. – No. 4. – P. 51–57. <https://doi.org/10.24075/brsmu.2022.042>
72. Vishnyakova A., Popova N., Artemiev G., Botchkova E., Litti Y., Safonov A. **Effect of mineral carriers on biofilm formation and nitrogen removal activity by an indigenous anammox community from cold groundwater ecosystem alone and bioaugmented with biomass from a «warm» anammox reactor** // Biology. – 2022. – V. 11. – No. 10. – Article ID 1421. <https://doi.org/10.3390/biology11101421>
73. Zhang Y., Nsanzamahoro S., Wang Ch.-B., Wang W.-F., Yang J.-L. **Screening of prolyl hydroxylase 2 inhibitors based on quantitative strategy of peptides** // Journal of Chromatography A. – 2022. – V. 1679. – Article ID 463411. <https://doi.org/10.1016/j.chroma.2022.463411>
74. Zhuravleva E. A., Shekhurdina S. V., Kotova I. B., Loiko N. G., Popova N. M., Kryukov E., Kovalev A. A., Kovalev A. D., Litti Y. V. **Effects of various materials used to promote the direct interspecies electron transfer on anaerobic digestion of low-concentration swine manure** // Science of the Total Environment. – 2022. – V. 839. – Article ID 156073. <https://doi.org/10.1016/j.scitotenv.2022.156073>

2021

1. Akhmedov M. A., Khidirov S., Khibiev K. S. **Modification of cellulose in the solution of methanesulfonic acid** // Russian Chemical Bulletin. – 2021. – V. 70. – No. 2. – P. 412–419. <https://doi.org/10.1007/s11172-021-3101-y>

2. Andreeva A., Budenkova E., Babich O., Sukhikh S., Ulrikh E., Ivanova S., Prosekov A., Dolganyuk V. **Production, purification, and study of the amino acid composition of microalgae proteins** // *Molecules*. – 2021. – V. 26. – No. 9. – Article 2767. <https://doi.org/10.3390/molecules26092767>
3. Bortnikova S. B., Yurkevich N. V., Gaskova O. L., Devyatova A. Y., Novikova I. I., Volynkin S. S., Mytsik A. V., Podolinnaya V. A. **Element transfer by a vapor-gas stream from sulfide mine tailings: from field and laboratory evidence to thermodynamic modeling** // *Environmental Science and Pollution Research*. – 2021. – V. 28. – No. 12. – P. 14927–14942. <https://doi.org/10.1007/s11356-020-11529-x>
4. Bortnikova S. B., Yurkevich N. V., Gaskova O. L., Volynkin S. S., Edelev A. V., Grakhova S. P., Kalnaya O. I., Khusainova A. Sh., Gora M. P., Khvashchevskaya A. A., Saeva O. P., Podolinnaya V. A., Kurovskaya V. V. **Arsenic and metal quantities in abandoned arsenide tailings in dissolved, soluble, and volatile forms during 20 years of storage** // *Chemical Geology*. – 2021. – V. 586. – Article 120623. <https://doi.org/10.1016/j.chemgeo.2021.120623>
5. Chenyakin Y., Chen D. D. Y. **Characterization of capillary inner surface conditions with streaming potential** // *Electrophoresis*. – 2021. – V. 42. – No. 20. – P. 2094–2102. <https://doi.org/10.1002/elps.202100167>
6. Chetverikov S., Vysotskaya L., Kuzina E., Arkhipova T., Bakaeva M., Rafikova G., Korshunova T., Chetverikova D., Hkudaygulov G., Kudoyarova G. **Effects of association of barley plants with hydrocarbon-degrading bacteria on the content of soluble organic compounds in clean and oil-contaminated sand** // *Plants*. – 2021. – V. 10. – No. 5. – Article 975. <https://doi.org/10.3390/plants10050975>
7. Danilova O. V., Ivanova A. A., Terent'eva I. E., Glagolev M. V., Sabrekov A. F. **Microbial community composition of floodplains shallow-water seeps in the Bolshaya Rechka floodplain, Western Siberia** // *Microbiology*. – 2021. – V. 90. – No. 5. – P. 632–642. <https://doi.org/10.1134/S0026261721050040>
8. Dyshlyuk L., Sukhikh S., Noskova S., Ivanova S., Prosekov A., Babich O. **Study of the L-phenylalanine ammonia-lyase penetration kinetics and the efficacy of phenylalanine catabolism correction using in vitro model systems** // *Pharmaceutics*. – 2021. – V. 13. – No. 3. – Article 383. <https://doi.org/10.3390/pharmaceutics13030383>
9. Ermolin M. S., Dzherayan T. G., Vanifatova N. G. **Stability of volcanic nanoparticles using combined capillary zone electrophoresis and laser diffraction** // *Environmental Chemistry Letters*. – 2021. – V. 19. – No. 1. – P. 751–762. <https://doi.org/10.1007/s10311-020-01087-6>
10. Ermolenko Y., Gorunova O. N., Dunina V. V., Petrenko D. B., Novikova N. G., Alekseeva A., Osipova N., Kochetkov K. A., Morozov A., Gelperina S. **Quantitative analysis of palladacycle-tagged PLGA nanoparticle biodistribution in rat organs by means of atomic absorption spectrometry and inductively coupled plasma mass spectrometry** // *Journal of Analytical Atomic Spectrometry*. – 2021. – V. 36. – No. 11. – P. 2423–2430. <https://doi.org/10.1039/D1JA00260K>
11. Evdokimova S. A., Nokhaeva V. S., Karetkin B. A., Guseva E. V., Khabibulina N. V., Kornienko M. A., Grosheva V. D., Menshutina N. V., Shakir I. V., Panfilov V. I. **A study on the synbiotic composition of *Bifidobacterium bifidum* and fructans from *Arctium lappa* roots and *Helianthus tuberosus* tubers against *Staphylococcus aureus*** // *Microorganisms*. – 2021. – V. 9. – No. 5. – Article 930. <https://doi.org/10.3390/microorganisms9050930>
12. Firsov A. M., Popova L. B., Khailova L. S., Nazarov P. A., Kotova E. A., Antonenko Y. N. **Protonophoric action of BAM15 on planar bilayers, liposomes, mitochondria, bacteria and neurons** // *Bioelectrochemistry*. – 2021. – V. 137. – Article 107673. <https://doi.org/10.1016/j.bioelechem.2020.107673>
13. Generalova Y., Sipkina N., Alekseeva G. **Determination of related impurities in a new active pharmaceutical ingredient – Sodium 4,4'-(propanediamido)dibenzoate** // *Microchemical Journal*. – 2021. – V. 168. – Article 106498. <https://doi.org/10.1016/j.microc.2021.106498>
14. Kovshova T., Osipova N., Alekseeva A., Malinovskaya J., Belov A., Budko A., Pavlova G., Maksimenko O., Nagpal S., Braner S., Modh M., Balabanyan V., Wacker M. G., Gelperina S. **Exploring the interplay between drug release and targeting of lipid-like polymer nanoparticles loaded with doxorubicin** // *Molecules*. – 2021. – V. 26. – No. 4. – Article 831. <https://doi.org/10.3390/molecules26040831>
15. Lancioni C., Aspromonte J., Tascon M., Gagliardi L. G. **Development of a background electrolyte for the determination of inorganic cations in high ionic strength samples by capillary electrophoresis with indirect UV-absorption detection** // *Journal of Chromatography A*. – 2021. – V. 1645. – Article 462091. <https://doi.org/10.1016/j.chroma.2021.462091>
16. Laptev A. Y., Rozhmanova N. B., Tikhomirova T. I., Lanin S. N., Nesterenko P. N. **Adsorption of synthetic dyes under the conditions of capillary zone electrophoresis** // *Moscow University Chemistry Bulletin*. – 2021. – V. 76. – No. 2. – P. 127–132. <https://doi.org/10.3103/S0027131421020061>
17. Larder C. E., Iskandar M. M., Kubow S. **Assessment of bioavailability after in vitro digestion and first pass metabolism of bioactive peptides from collagen hydrolysates** // *Current Issues in Molecular Biology*. – 2021. – V. 43. – No. 3. – P. 1592–1605. <https://doi.org/10.3390/cimb43030113>
18. Litti Y. V., Kovalev A. A., Kovalev D. A., Katraeva I. V., Parshina S. N., Zhuravleva E. A., Botchkova E. A. **Characteristics of the process of biohydrogen production from simple and complex substrates with different biopolymer composition** // *International Journal of Hydrogen Energy*. – 2021. – V. 46. – No. 52. – P. 26289–26297. <https://doi.org/10.1016/j.ijhydene.2021.05.165>
19. Litti Y. V., Kovalev D. A., Kovalev A. A., Merkel A. Y., Vishnyakova A. V., Russkova Y. I., Nozhevnikova A. N. **Auto-selection of microorganisms of sewage sludge used as an inoculum for fermentative hydrogen production from different substrates** // *International Journal of Hydrogen Energy*. – 2021. – V. 46. – No. 58. – P. 29834–29845. <https://doi.org/10.1016/j.ijhydene.2021.06.174>
20. Losev V. N., Didukh-Shadrina S. L., Orobyeva A. S., Metelitsa S. I., Borodina E. V., Ondar U. V., Nesterenko P. N., Maznyak N. V. **A new method for highly efficient separation and determination of arsenic species in natural water using silica modified with polyamines** // *Analytica Chimica Acta*. – 2021. – V. 1178. – Article 338824. <https://doi.org/10.1016/j.aca.2021.338824>

21. Malinina Y., Yakimova N., Moskvina L., Tkach K., Kamentsev M., Kuchumova I. **A low-cost, simple method for isotopic analysis of enriched boron pharmaceutical substances by capillary zone electrophoresis with indirect UV detection** // *Chromatographia*. – 2021. – V. 84. – No. 4. – P. 393–398. <https://doi.org/10.1007/s10337-020-03995-9>
22. Mikhailov E. F., Pöhlker M. L., Reinmuth-Selzle K., Vlasenko S. S., Krüger O. O., Fröhlich-Nowoisky J., Pöhlker Chr., Ivanova O. A., Kiselev A. A., Pöschl U. **Water uptake of subpollen aerosol particles: hygroscopic growth, cloud condensation nuclei activation, and liquid–liquid phase separation** // *Atmospheric Chemistry and Physics*. – 2021. – V. 21. – No. 9. – P. 6999–7022. <https://doi.org/10.5194/acp-21-6999-2021>
23. Othman A. J., Eliseeva L. G., Ibragimova N. A., Zelenkov V. N., Latushkin V. V., Nicheva D. V. **Dataset on the effect of foliar application of different concentrations of silicon dioxide and organosilicon compounds on the growth and biochemical contents of oak leaf lettuce (*Lactuca sativa* var. *crispa*) grown in phytotron conditions** // *Data in Brief*. – 2021. – V. 38. – Article 107328. <https://doi.org/10.1016/j.dib.2021.107328>
24. Ovsyannikova V. S., El'chaninova E. A., Kuvshinov I. V., Altunina L. K., Shcherbakova A. G. **Effect of retarded acid system and hydrocarbon-oxidizing microflora on the Usinskoye Field oil composition under laboratory and pilot conditions** // *Petroleum Chemistry*. – 2021. – V. 6. – No. 1. – P. 43–51. <https://doi.org/10.1134/S0965544121010047>
25. Polyakova E. V., Shuvaeva O. V., Koshcheeva O. S., Tyutereva Y. E., Pozdnyakov I. P. **Capillary zone electrophoresis as a simple approach for the study of *p*-arsanilic acid transformation in the process of photolytic degradation** // *Electrophoresis*. – 2021. – V. 42. – No. 6. – P. 719–724. <https://doi.org/10.1002/elps.202000262>
26. Rozanov A. S., Myagkaya I. N., Korzhuk A. V., Ershov N. I., Kirichenko I. S., Gustaytis M. A., Saryg-ool B. Yu., Malov V. I., Shipova A. A., Peltek S. E. **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. – V. 36. – Article 107099. <https://doi.org/10.1016/j.dib.2021.107099>
27. Ryzhik I. V., Klindukh M. P., Dobychnina E. O. **The B-group vitamins in the red alga *Palmaria palmata* (Barents Sea): Composition, seasonal changes and influence of abiotic factors** // *Algal Research*. – 2021. – V. 59. – Article 102473. <https://doi.org/10.1016/j.algal.2021.102473>
28. Safonov A. V., Boguslavsky A. E., Gaskova O. L., Boldyrev K. A., Shvartseva O. S., Khvashchevskaya A. A., Popova N. M. **Biogeochemical modelling of uranium immobilization and aquifer remediation strategies near NCCP sludge storage facilities** // *Applied Sciences*. – 2021. – V. 11. – No. 6. – Article 2875. <https://doi.org/10.3390/app11062875>
29. Shen H., Holliday M., Sheikh-Hamad D., Li Q., Tong Q., Hamad C. D., Pan J. S. **Sirtuin-3 mediates sex differences in kidney ischemia-reperfusion injury** // *Translational Research*. – 2021. – V. 235. – P. 15–31. <https://doi.org/10.1016/j.trsl.2021.03.015>
30. Tarasenko N. A., Plomodyalo R. L., Krasina I. B., Nikonovich Y. N., Krasin P. S. **Dietary fibers by milling them in a vertical mill variation of granulometric composition** // *Journal of Industrial Pollution Control*. – 2021. – V. 37. – No. 4. – P. 1067–1074. <https://www.icontrolpollution.com/articles/dietary-fibers-by-milling-them-in-a-vertical-mill-variation-of-granulometric-composition.pdf>
31. Taus F., Pigaiani N., Bortolotti F., Mazzoleni G., Brevi M., Tagliaro F., Gottardo R. **Direct and specific analysis of nitrite and nitrate in biological and non-biological samples by capillary ion analysis for the rapid identification of fatal intoxications with sodium nitrite** // *Forensic Science International*. – 2021. – V. 325. – Article 110855. <https://doi.org/10.1016/j.forsciint.2021.110855>
32. Tyutereva Y. E., Sherin P. S., Polyakova E. V., Grivin V. P., Plyusnin V. F., Shuvaeva O. V., Xu J., Wu F., Pozdnyakov I. P. **Synergetic effect of potassium persulfate on photodegradation of *para*-arsanilic acid in Fe(III) oxalate system** // *Journal of Photochemistry and Photobiology A: Chemistry*. – 2021. – V. 420. – Article 113507. <https://doi.org/10.1016/j.jphotochem.2021.113507>
33. Vafin R. R., Radaeva I. A., Kruchinin A. G., Illarionova E. E., Bigaeva A. V., Turovskaya S. N., Belozerov G. A., Gilmanov Kh. Kh., Yurova E. A. **κ -Casein polymorphism effect on technological properties of dried milk** // *Foods and Raw Materials*. – 2021. – V. 9. – No. 1. – P. 95–105. <https://doi.org/10.21603/2308-4057-2021-1-95-105>
34. Yakiyayeva M., Muldabekova B., Mukhtarkhanova R., Maliktayeva P., Zheldybayeva A., Nasrullin G., Toktarova A. **Devising the formulation and technology for baking buns from flour of composite mixtures and sugar beet** // *European Journal of Enterprise Technologies*. – 2021. – V. 5. – No. 11. – Article 113. <https://doi.org/10.15587/1729-4061.2021.240348>
35. Zaripov E. A., Lee T., Dou Y., Harris C. S., Egorov A., Berezovski M. V. **Single-run separation and quantification of 14 cannabinoids using capillary electrophoresis** // *Separations*. – 2021. – V. 8. – No. 3. – Article 30. <https://doi.org/10.3390/separations8030030>
36. Zhang E., Osipova N., Sokolov M., Maksimenko O., Semyonkin A., Wang M., Grigartzik L., Gelperina S., Sabel B. A., Henrich-Noack P. **Exploring the systemic delivery of a poorly water-soluble model drug to the retina using PLGA nanoparticles** // *European Journal of Pharmaceutical Sciences*. – 2021. – V. 164. – Article 105905. <https://doi.org/10.1016/j.ejps.2021.105905>
37. Zhukova V., Osipova N., Semyonkin A., Malinovskaya J., Melnikov P., Valikhov M., Porozov Yu., Solovev Ya., Kuliaev P., Zhang E., Sabel B. A., Chekhonin V., Abakumov M., Majouga A., Kreuter J., Henrich-Noack P., Gelperina S., Maksimenko O. **Fluorescently labeled PLGA nanoparticles for visualization *in vitro* and *in vivo*: the importance of dye properties** // *Pharmaceutics*. – 2021. – V. 13. – No. 8. – Article 1145. <https://doi.org/10.3390/pharmaceutics13081145>

2020

1. Bagirov V. A., Ushakov A. S., Duskaev G. K., Kvan O. V., Rakhmatullin Sh. G., Yausheva E. V., Vershinina I. A. **Metagenomic analysis of intestinal microbiome and biochemical composition of broiler meat upon use of *Quercus cortex* extract dietary additive** // *Agricultural Biology*. – 2020. – V. 55. – No. 3. – P. 682–696. <https://doi.org/10.15389/agrobiology.2020.4.682eng>

2. Bel'skaya L. V., Sarf E. A., Solomatina D. V., Kosenok V. K. **Diagnostic and prognostic value of salivary biochemical markers in oral squamous cell carcinoma** // *Diagnostics*. – 2020. – V. 10. – No. 10. – Article 818. <https://doi.org/10.3390/diagnostics10100818>
3. Desguin B., Urdiain-Arraiza J., Da Costa M., Fellner M., Hu J., Hausinger R. P., Desmet T., Hols P., Soumillion P. **Uncovering a superfamily of nickel-dependent hydroxyacid racemases and epimerases** // *Scientific Reports*. – 2020. – V. 10. – No. 1. – P. 1–11. <https://doi.org/10.1038/s41598-020-74802-6>
4. Dzherayan T. G., Ermolin M. S., Vanifatova N. G. **Effectiveness of the simultaneous application of capillary zone electrophoresis and static light scattering in the study of volcanic ash nano- and submicroparticles** // *Journal of Analytical Chemistry*. – 2020. – V. 75. – No. 1. – P. 67–72. <https://doi.org/10.1134/S1061934820010050>
5. Gasanov G. N., Asvarova T. A., Hajiyev K. M., Bashirov R. R., Akhmedova Z. N., Abdulaeva A. S., Salikhov Sh. K., Ramazanova N. I., Gimbatov A. Sh., Musaev M. R., Magomedov N. R., Usmanov R. Z. **The balance of calcium in the grass ecosystems of the Terek-Kuma lowland** // *Agricultural Biology*. – 2020. – V. 55. – No. 3. – P. 597–605. <https://doi.org/10.15389/agrobiology.2020.3.597eng>
6. Gorlov I. F., Slozhenkina M. I., Mosolova N. I., Grishin V. S., Mosolov A. A., Bondarkova E. Y., Anisimova E. Yu., Starodubova Yu. V., Brekhova S. A., Andreev-Chadaev P. S. **Locusta migratoria extruded meal in young steers diet: evaluation of growth performance, blood indices and meat traits of Calves Kasakh white-headed breed** // *Journal of Applied Animal Research*. – 2020. – V. 48. – No. 1. – P. 348–356. <https://doi.org/10.1080/09712119.2020.1802282>
7. Gudkova A. A., Chistyakova A. S., Vandyshev D. Y., Karlov P. M., Sorokina A. A. **Comparative studies of the amino acids profile *Persicaria hydropiper* L. Delarbre and *Persicaria minor* Hunds., growing in the Voronezh Region (Russia)** // *Research Journal of Pharmacy and Technology*. – 2020. – V. 13. – No. 12. – P. 5721–5725. <https://dx.doi.org/10.5958/0974-360X.2020.00996.8>
8. Huang Z. A., Scotlan K. B., Li Y., Tan J., Kung S. H., Chew B. H., Chen D. D. Y., Lange D. **Determination of urinary prostaglandin E₂ as a potential biomarker of ureteral stent associated inflammation** // *Journal of Chromatography B*. – 2020. – V. 1145. – Article 122107. <https://doi.org/10.1016/j.jchromb.2020.122107>
9. Kartsova L., Moskvichev D., Bessonova E., Peshkova M. **Imidazolium ionic liquids in microemulsion electrokinetic chromatography for separation of polyphenol antioxidants** // *Chromatographia*. – 2020. – V. 83. – No. 8. – P. 1001–1008. <https://doi.org/10.1007/s10337-020-03921-z>
10. Kizatova M. Z., Iskakova G. K., Azimova S. T., Nabieva J. S., Alibaeva B. N. **Establishment of mode parameters of extraction of pumpkin pectin-containing extract by enzyme method** // *EurAsian Journal of BioSciences*. – 2020. – V. 14. – No. 2. – P. 4261–4269. <http://www.ejobios.org/article/establishment-of-mode-parameters-of-extraction-of-pumpkin-pectin-containing-extract-by-enzyme-method-8074>
11. Kravchenko A., Kolobova E., Kartsova L. **Multifunction covalent coatings for separation of amino acids, biogenic amines, steroid hormones, and ketoprofen enantiomers by capillary electrophoresis and capillary electrochromatography** // *Separation Science Plus*. – 2020. – V. 3. – No. 4. – P. 102–111. <https://doi.org/10.1002/sscp.201900098>
12. Kubczak M., Khassenova A. B., Skalski B., Michlewska S., Wielanek M., Aralbayeva A. N., Murzakhmetova M. K., Zamaraeva M., Skłodowska M., Bryszewska M., Ionov M. **Bioactive compounds and antiradical activity of the *Rosa canina* L. leaf and twig extracts** // *Agronomy*. – 2020. – V. 10. – No. 12. – Article 1897. <https://doi.org/10.3390/agronomy10121897>
13. Kumskova N., Ermolenko Y., Osipova N., Semyonkin A., Kildeeva N., Gorshkova M., Kovalskii A., Kovshova T., Tarasov V., Kreuter J., Maksimenko O., Gelperina S. **How subtle differences in polymer molecular weight affect doxorubicin-loaded PLGA nanoparticles degradation and drug release** // *Journal of Microencapsulation*. – 2020. – V. 37. – No. 3. – P. 283–295. <https://doi.org/10.1080/02652048.2020.1729885>
14. Kurganov A. A., Korolev A. A., Viktorova E. N. **Optimization of conditions of polymer separation by hydrodynamic chromatography** // *Polymer Science, Series A*. – 2020. – V. 62. – No. 6. – P. 758–765. <https://doi.org/10.1134/S0965545X20060061>
15. Lebedeva E. L., Neudachina L. K. **Model of the electrophoretic behavior of complexes of metals** // *Russian Journal of Physical Chemistry A*. – 2020. – V. 94. – No. 4. – P. 852–858. <https://doi.org/10.1134/S0036024420040081>
16. Makeeva D., Polikarpova D., Demyanova E., Roshchina, E., Vakhitov T., Kartsova L. **Determination of native amino acids and lactic acid in *Lactobacillus helveticus* culture media by capillary electrophoresis using Cu²⁺ and β-cyclodextrins as additives** // *Journal of Chromatography B*. – 2020. – V. 1156. – Article 122304. <https://doi.org/10.1016/j.jchromb.2020.122304>
17. Manousakas M., Popovicheva O., Evangelidou N., Diapouli E., Sitnikov N., Shonija N., Eleftheriadis K. **Aerosol carbonaceous, elemental and ionic composition variability and origin at the Siberian High Arctic, Cape Baranova** // *Tellus B: Chemical and Physical Meteorology*. – 2020. – V. 72. – No. 1. – P. 1–14. <https://doi.org/10.1080/16000889.2020.1803708>
18. Mokshina N. Y., Shkinev V. M., Shatalov G. V., Pakhomova O. A., Spivakov B. Y. **Extraction systems based on N-vinylformamide for the extraction and separation of cyclic amino acids** // *Doklady Chemistry*. – 2020. – V. 493. – No. 2. – P. 113–116. <https://doi.org/10.1134/S0012500820080029>
19. Pero-Gascon R., Tascon M., Sanz-Nebot V., Gagliardi L. G., Benavente F. **Improving separation optimization in capillary electrophoresis by using a general quality criterion** // *Talanta*. – 2020. – V. 208. – Article 120399. <https://doi.org/10.1016/j.talanta.2019.120399>
20. Pobednov Yu. A., Mamaev A. A., Shirokoryad M. S., Yildirim E. A., Laptev G. Yu., Ilyina L. A., Brazhnik E. A., Tarlavin N. V. **Fermentation processes in alfalfa haylage without additives and with introduction of *Lactobacillus plantarum* strain** // *Agricultural Biology*. – 2020. – V. 55. – No. 6. – P. 1268–1284. <https://doi.org/10.15389/agrobiology.2020.6.1268en>

21. Sampiev A. M., Nikiforova E. B., Shevchenko A. I. **Flavonoids from leaves of *Ziziphus jujube*** // Pharmaceutical Chemistry Journal. – 2020. – V. 54. – No. 8. – P. 800–803. <https://doi.org/10.1007/s11094-020-02277-w>
22. Sardushkin M. V., Shiryaeva Y. K., Donskaya L., Vifor R. **Colloid-chemical and antimicrobial properties of ribavirin aqueous solutions** // Systematic Reviews in Pharmacy. – 2020. – V. 11. – No. 12. – P. 2050–2053. <https://www.sysrevpharm.org/abstract/colloidchemical-and-antimicrobial-properties-of-ribavirin-aqueous-solutions-67149.html>
23. Snegur L. V., Borisov Y. A., Ermolenko Y. V., Safronova V. N., Kiselev S. S., Kochetkov K. A., Simenel A. A. **Application of capillary electrophoresis technique for the enantioseparation of bioactive ferrocene-based compounds versus DFT calculated data** // Electrophoresis. – 2020. – V. 41. – No. 23. – P. 1969–1979. <https://doi.org/10.1002/elps.202000154>
24. Tereshchuk L., Starovoytova K., Babich O., Dyshlyuk L., Sergeeva I., Pavsky V., Ivanova S., Prosekov A. **Sea buckthorn and rosehip oils with chokeberry extract to prevent hypercholesterolemia in mice caused by a high-fat diet *in vivo*** // Nutrients. – 2020. – V. 12. – No. 10. – Article 2941. <https://dx.doi.org/10.3390/nu12102941>
25. Tyutereva Y. E., Sherin P. S., Polyakova E. V., Koscheeva O. S., Grivin V. P., Plyusnin V. F., Shuvaeva O. V., Pozdnyakov I. P. **Photodegradation of *para*-arsanilic acid mediated by photolysis of iron(III) oxalate complexes** // Chemosphere. – 2020. – V. 261. – Article 127770. <https://doi.org/10.1016/j.chemosphere.2020.127770>
26. Wu H., Zhang R., Zhang W., Hong J., Xiang Y., Xu W. **Rapid 3-dimensional shape determination of globular proteins by mobility capillary electrophoresis and native mass spectrometry** // Chemical Science. – 2020. – V. 11. – No. 18. – P. 4758–4765. <https://doi.org/10.1039/D0SC01965H>
27. Zhang E., Zhukova V., Semyonkin A., Osipova N., Malinovskaya Y., Maksimenko O., Chernikov V., Sokolov M., Grigartzik L., Sabel B. A., Gelperina S., Henrich-Noack P. **Release kinetics of fluorescent dyes from PLGA nanoparticles in retinal blood vessels: *In vivo* monitoring and *ex vivo* localization** // European Journal of Pharmaceutics and Biopharmaceutics. – 2020. – V. 150. – P. 131–142. <https://doi.org/10.1016/j.ejpb.2020.03.006>

2019

1. Afshari R., Ghasemi V., Shaabani S., Shaabani A., Aladaghlo Z., Fakhari A. R. **Post-modification of phthalocyanines via isocyanide-based multicomponent reactions: Highly dispersible peptidomimetic metallophthalocyanines as potent photosensitizers** // Dyes and Pigments. – 2019. – V. 166. – P. 49–59. <https://doi.org/10.1016/j.dyepig.2019.03.018>
2. Antuganov D., Antuganova Y., Zykova T., Krasikova R. **Use of capillary electrophoresis for the determination of impurities in preparations of fluorine-18 labelled PET radiopharmaceuticals** // Journal of Pharmaceutical and Biomedical Analysis. – 2019. – V. 173. – P. 68–74. <https://doi.org/10.1016/j.jpba.2019.05.016>
3. Arlyapov V. A., Kamanina O. A., Kamanin S. S., Reshetilov A. N., Shvets V. I. **Monitoring of biotechnological processes by enzyme electrodes modified with carbon nanotubes** // Applied Biochemistry and Microbiology. – 2019. – V. 55. – No. 3. – P. 313–321. <https://doi.org/10.1134/S0003683819030037>
4. Bakholdina L. A., Markova A. A., Khlebnikov A. I., Sevodin V. P. **Cytotoxicity of new ferulic-acid derivatives on human colon carcinoma (HCT116) cells** // Pharmaceutical Chemistry Journal. – 2019. – V. 53. – No. 6. – P. 516–520. <https://doi.org/10.1007/s11094-019-02030-y>
5. Bel'skaya L. V., Sar E. A., Solonenko A. P. **Morphology of dried drop patterns of saliva from a healthy individual depending on the dynamics of its surface tension** // Surfaces. – 2019. – V. 2. – No. 2. – P. 395–414. <https://doi.org/10.3390/surfaces2020029>
6. Flefel H. E., Nokhrin D. Yu., Donnik I. M. **Chemical composition and water quality of some rivers of the Sverdlovsk Oblast (Ural, Russia)** // Egyptian Journal of Aquatic Biology and Fisheries. – 2019. – V. 23. – No. 4. – P. 659–666. <https://dx.doi.org/10.21608/ejabf.2019.60919>
7. He M., Luo P., Hong J., Wang X., Wu H., Zhang R., Qu F., Xiang Y., Xu W. **Structural analysis of biomolecules through a combination of mobility capillary electrophoresis and mass spectrometry** // ACS Omega. – 2019. – V. 4. – No. 1. – P. 2377–2386. [doi:10.1021/acsomega.8b03224](https://doi.org/10.1021/acsomega.8b03224)
8. Huang L., Lin Q., Li Y., Zheng G., Chen Y. **Study of the enantioselectivity and recognition mechanism of sulfhydryl-compound-functionalized gold nanochannel membranes** // Analytical and Bioanalytical Chemistry. – 2019. – V. 411. – No. 2. – P. 471–478. [doi:10.1007/s00216-018-1464-1](https://doi.org/10.1007/s00216-018-1464-1)
9. Lancioni C., Keunchkarian S., Castells C. B., Gagliardi L. G. **Determination of thermodynamic binding constants by affinity capillary electrophoresis** // Talanta. – 2019. – V. 192. – P. 448–454. [doi:10.1016/j.talanta.2018.09.044](https://doi.org/10.1016/j.talanta.2018.09.044)
10. Malinina Y., Kamentsev M. Y., Timofeeva I. I., Moskvina L. N., Yakimova N. M., Kuchumova I. D. **Determination of volatile low-molecular-weight amines in water by capillary electrophoresis after headspace microextraction** // Journal of Analytical Chemistry. – 2019. – V. 74. – No. 1. – P. 27–31. <https://doi.org/10.1134/S1061934819070153>
11. Nilova L., Malyutenkova S., Kruchina-Bogdanov I. **The impact of plant powders on acrylamide content in bakery products** // Agronomy Research. – 2019. – V. 17. – Special Issue 2. – P. 1401–1413. <https://doi.org/10.15159/AR.19.076>
12. Pereverzeva E., Treschalina I., Treschalina M., Arantseva D., Ermolenko Yu., Kumskova N., Maksimenko O., Balabanyan V., Kreuter J., Gelperina S. **Toxicological study of doxorubicin-loaded PLGA nanoparticles for the treatment of glioblastoma** // International Journal of Pharmaceutics. – 2019. – V. 554. – P. 161–178. [doi:10.1016/j.ijpharm.2018.11.014](https://doi.org/10.1016/j.ijpharm.2018.11.014)
13. Poluboyarinov P. A., Golubkina N. A., Aniskov A. A., Moiseeva I. J., Glebova N. N., Shvets V. I. **The Synthesis and biological activity of 3,3'-dimethyl-L-selenocystine, a new selenocystine derivative** // Russian Journal of Bioorganic Chemistry. – 2019. – V. 45. – No. 4. – P. 241–247. <https://doi.org/10.1134/S1068162019040083>
14. Popovicheva O., Diapouli E., Makshtas A., Shonija N., Manousakas M., Saraga D., Uttal T., Eleftheriadis K. **East Siberian Arctic background and black carbon polluted aerosols at HMO Tiksi** // Science of The Total Environment. – 2019. – V. 655. – P. 924–938. [doi:10.1016/j.scitotenv.2018.11.165](https://doi.org/10.1016/j.scitotenv.2018.11.165)

15. Popovicheva O. B., Engling G., Ku I. T., Timofeev M. A., Shonija N. K. **Aerosol emissions from long-lasting smoldering of boreal peatlands: chemical composition, markers, and microstructure** // *Aerosol and Air Quality Research*. – 2019. – V. 19. – No. 3. – P. 484–503. <https://doi.org/10.4209/aaqr.2018.08.0302>
16. Sampiiev A. M., Davitavian N. A., Nikiforova Y. B., Yakuba Y. F. **Quantitative determination of 0.05% chlorhexidine solution by capillary electrophoresis** // *Zaporozhye Medical Journal*. – V. 21. – No. 4. – P. 517–521. <http://zmi.zsmu.edu.ua/article/download/173352/173883/384716>
17. Temerdashev Z. A., Khalafyan A. A., Yakuba Y. F. **Comparative assessment of amino acids and volatile compounds role in the formation of wines sensor properties by means of covariation analysis** // *Heliyon*. – V. 5. – No. 10. – Article e02626. <https://doi.org/10.1016/j.heliyon.2019.e02626>
18. Yernazarova K. B., Abdrassulova Zh. T., Tuleuhanov S. T., Tussupbekova G. A., Salybekova N. N., Isayev G., Basim H. **Biological features of the medicinal plant *Plantago major* L.** // *International Journal of Biology and Chemistry*. – 2019. – V. 12. – No. 1. – P. 86–93. <https://doi.org/10.26577/ijbch-2019-1-i11>
19. Zhang W., Wu H., Zhang R., Fang X., Xu W. **Structure and effective charge characterization of proteins by a mobility capillary electrophoresis based method** // *Chemical Science*. – 2019. – V. 10. – No. 33. – P. 7779–7787. <https://doi.org/10.1039/C9SC02039J>
20. Zhang R., Wu H., He M., Zhang W., Xu W. **Mobility capillary electrophoresis-restrained modeling method for protein structure analysis in mixtures** // *The Journal of Physical Chemistry B*. – 2019. – V. 123. – No. 10. – P. 2335–2341. <https://doi.org/10.1021/acs.jpcc.9b01148>

2018

1. Antuganov D. O., Ryzhkova D. V., Zykova T. A., Timofeev V. V., Antuganova Yu. O., Timofeeva K. Yu., Samburov O. P., Zikov M. P. **Modification of automatic synthesis of [¹⁸F]fluoromisonidazole on a GE TracerLAB Fx F-N synthesis module** // *Radiochemistry*. – 2018. – V. 60. – No. 1. – P. 45–50. <https://doi.org/10.1134/S1066362218010083>
2. Bel'skaya L. V., Sarf E. A., Makarova N. A. **Use of Fourier transform IR spectroscopy for the study of saliva composition** // *Journal of Applied Spectroscopy*. – 2018. – V. 85. – No. 3. – P. 445–451. <https://doi.org/10.1007/s10812-018-0670-0>
3. Blagonravov M. L., Medvedeva E. V., Bryk A. A., Goryachev V. A., Rabinovich A. E., Letoshneva A. S., Demurov E. A. **24-hour profile of blood pressure, heart rate, excretion of electrolytes, and locomotor activity in Wistar-Kyoto and SHR rats under conditions of free-run rhythm** // *Bulletin of Experimental Biology and Medicine*. – 2018. – V. 166. – No. 2. – P. 192–196. <https://doi.org/10.1007/s10517-018-4312-6>
4. Chalavi S., Fakhari A. R., Nojavan S., Mirzaei P. **Evaluation of the synergistic effect with amino acids for enantioseparation of basic drugs using capillary electrophoresis** // *Electrophoresis*. – 2018. – V. 39. – No. 17. – P. 2202–2209. <https://doi.org/10.1002/elps.201800128>
5. Chalavi S., Fakhari A. R., Nojavan S. **Development of a modified partial filling method in capillary electrophoresis using two chiral plugs for the simultaneous enantioseparation of chiral drugs: Comparison with mixed chiral selector capillary electrophoresis** // *Journal of Chromatography A*. – 2018. – V. 1567. – P. 211–218. <https://doi.org/10.1016/j.chroma.2018.06.052>
6. Fakhari A. R., Mohammadi Kosalar H., Asadi S., Hasheminasab K. S. **Surfactant-assisted electromembrane extraction combined with cyclodextrin-modified capillary electrophoresis for the separation and quantification of Tranylcypromine enantiomers in biological samples** // *Journal of Separation Science*. – 2018. – V. 41. – No. 2. – P. 475–482. <https://doi.org/10.1002/jssc.201700488>
7. González J. A., Bafico J. G., Villanueva M. E., Giorgieri S. A., Copello G. J. **Continuous flow adsorption of ciprofloxacin by using a nanostructured chitin/graphene oxide hybrid material** // *Carbohydrate Polymers*. – 2018. – V. 188. – P. 213–220. <https://doi.org/10.1016/j.carbpol.2018.02.021>
8. Halka M., Klimek-Chodacka M., Smoleń S., Baranski R., Ledwożyw-Smoleń I., Sady W. **Organic iodine supply affects tomato plants differently than inorganic iodine** // *Physiologia Plantarum*. – 2018. – V. 164. – No. 3. – P. 290–206. <https://doi.org/10.1111/ppl.12733>
9. Kapustian A. I., Chernov N. K., Kovalenko A. V., Naumenko K. I., Kushnir I. M. **Products of metabolism and processing of lactic acid bacteria and bifidobacteria as functional ingredients** // *Food Science and Applied Biotechnology*. – 2018. – V. 1. – No. 1. – P. 47–55. <https://doi.org/10.30721/fsab2018.v1.i1.13>
10. Kapustian A., Chernov N., Nikulina O. **Obtaining and characteristics of calcium organic forms on the basis of metabolites and processing products of probiotic bacteria** // *Food Science and Technology*. – 2018. – V. 12. – No. 2. – P. 4–12. <https://doi.org/10.15673/fst.v12i2.944>
11. Khayrulina E., Maksimovich N. **Influence of drainage with high levels of water-soluble salts on the environment in the Verhnekamskoe potash deposit, Russia** // *Mine Water and the Environment*. – 2018. – V. 37. – No. 3. – P. 595–603. <https://doi.org/10.1007/s10230-017-0509-6>
12. Kocurek P., Honzajková Z., Marek Š. Í. R., Tomášová P., Hendrych J. **Landfill leachate treatment using membrane separation: summary of laboratory testing experiences** // *Waste Forum*. – 2018. – No. 1. – P. 48–58. http://www.wasteforum.cz/cisla/WF_1_2018.pdf
13. Kolobova E., Kartsova L., Kravchenko A., Bessonova E. **Imidazolium ionic liquids as dynamic and covalent modifiers of electrophoretic systems for determination of catecholamines** // *Talanta*. – 2018. – V. 188. – P. 183–191. <https://doi.org/10.1016/j.talanta.2018.05.057>
14. Krasnova T. A., Timoshchuk I. V., Gorelkina A. K., Belyaeva O. V. **Effect of priority drinking water contaminants on the quality indicators of beverages during their production and storage** // *Foods and Raw Materials*. – 2018. – V. 6. – No. 1. – P. 230–241. <https://doi.org/10.21603/2308-4057-2018-1-230-241>
15. Kriger O. V., Kashirskikh E. V., Babich O. O., Noskova S. Yu. **Oat protein concentrate production** // *Foods and Raw Materials*. – 2018. – V. 6. – No. 1. – P. 47–55. <https://doi.org/10.21603/2308-4057-2018-1-47-55>

16. Kritskiy KJ., Kumeev R., Volkova T., Shipilov D., Kutyasheva N., Grachev M., Terekhova I. **Selective binding of methotrexate to monomeric, dimeric and polymeric cyclodextrins** // *New Journal of Chemistry*. – 2018. – V. 42. – No. 17. – P. 14559–14567. <https://doi.org/10.1039/c8nj02632g>
17. Lancioni C., Keunchkarian S., Castells C. B., Gagliardi L. G. **Enantiomeric separations by capillary electrophoresis: Theoretical method to determine optimum chiral selector concentration** // *Journal of Chromatography A*. – 2018. – V. 1539. – P. 71–77. <https://doi.org/10.1016/j.chroma.2018.01.002>
18. Leonova G. A., Mal'tsev A. E., Melenevskii V. N., Miroshnichenko L. V., Kondrat'eva L. M., Bobrov V. A. **Geochemistry of diagenesis of organogenic sediments: An example of small lakes in Southern West Siberia and Western Baikal Area** // *Geochemistry International*. – 2018. – V. 56. – No. 4. – P. 344–361. <https://doi.org/10.1134/S0016702918040043>
19. Malinina J., Kamencev M., Tkach K., Yakimova N., Kuchumova I., Moskvina L. **Large-volume sample stacking for the analysis of low molecular mass amines in steam water by CE using novel highly absorbing probe for indirect UV detection** // *Microchemical Journal*. – 2018. – V. 137. – P. 208–213. <https://doi.org/10.1016/j.microc.2017.10.018>
20. Naghdi E., Fakhari A. R. **Simultaneous chiral separation of tramadol and methadone in tablets, human urine, and plasma by capillary electrophoresis using maltodextrin as the chiral selector** // *Chirality*. – 2018. – V. 30. – No. 10. – P. 1161–1168. <https://doi.org/10.1002/chir.23008>
21. Polikarpova D., Makeeva D., Kartsova L., Dolgonosov A., Kolotilina N. **Nano-sized anion-exchangers as a stationary phase in capillary electrochromatography for separation and on-line concentration of carboxylic acids** // *Talanta*. – 2018. – V. 188. – P. 744–749. <https://doi.org/10.1016/j.talanta.2018.05.094>
22. Polkovnikova Y. A., Koryanova K. N., Slivkin A. I., Tul'skaya U. A., Senchenko S. P. **Development and validation of a quantitative determination technique for phenibut in microcapsules** // *Pharmaceutical Chemistry Journal*. – 2018. – V. 52. – No. 9. – P. 803–807. <https://doi.org/10.1007/s11094-018-1904-4>
23. Polyakova E. V., Shuvaeva O. V., Borisov A. S. **Determination of citrate ions in blood plasma by capillary zone electrophoresis** // *Journal of Analytical Chemistry*. – 2018. – V. 73. – No. 9. – P. 906–909. <https://doi.org/10.1134/S1061934818090113>
24. Spisso A., Gomez F. J. V., Fernanda Silva M. **Determination of ellagic acid by capillary electrophoresis in Argentinian wines** // *Electrophoresis*. – 2018. – V. 39. – No. 13. – P. 1621–1627. <https://doi.org/10.1002/elps.201700487>
25. Zarubina A. O., Chernov'yants M. S. **Aqueous and non-aqueous electrophoresis and micellar electrokinetic capillary chromatography of a mixture of quinoline-2-thione and 8-mercaptoquinoline hydrochloride** // *Analytical Methods*. – 2018. – V. 10. – No. 12. – P. 1399–1404. <https://doi.org/10.1039/C7AY02875J>

2017

1. Alekhina I., Ekaykin A., Moskvina A., Lipenkov V. **Chemical characteristics of the ice cores obtained after the first unsealing of subglacial Lake Vostok** // *Exploration of Subsurface Antarctica: Uncovering Past Changes and Modern Processes* / Ed. by M. J. Siegert, S. S. R. Jamieson & D. A. White. – L.: Geological Society, 2017. (Special Publications, 461). <https://doi.org/10.1144/SP461.3>
2. Arlyapov V. A., Kamanin S. S., Kamanina O. A., Reshetilov A. N. **Biosensor based on screen-printed electrode and glucose-oxidase modified with the addition of single-walled carbon nanotubes and thermoexpanded graphite** // *Nanotechnologies in Russia*. – 2017. – V. 12. – No. 11–12. – P. 658–666. <https://doi.org/10.1134/S1995078017060039>
3. Aladaghlo Z., Fakhari A. R., Hasheminasab K. S. **Carrier assisted electromembrane extraction based on nonionic lipophilic surfactants for the determination of basic drugs in urine samples** // *Analytical Methods*. – 2017. – V. 9. – No. 38. – P. 5659–5667. <https://doi.org/10.1039/C7AY00673J>
4. Babich O. O., Milent'eva I. S., Ivanova S. A., Pavsky V. A., Kashirskikh E. V., Yang Y. **The potential of pine nut as a component of sport nutrition** // *Foods and Raw Materials*. – 2017. – V. 5. – No. 2. – P. 170–177. <https://doi.org/10.21179/2308-4057-2017-2-170-177>
5. Bel'skaya L. V., Kosenok V. K., Sarf E. A. **Chronophysiological features of the normal mineral composition of human saliva** // *Archives of Oral Biology*. – 2017. – V. 82. – P. 286–292. <https://doi.org/10.1016/j.archoralbio.2017.06.024>
6. Bessonova E., Kartsova L., Gallyamova V. **Ionic liquids based on imidazole for on-line concentration of catecholamines in capillary electrophoresis** // *Journal of Separation Science*. – 2017. – V. 40. – No. 10. – P. 2304–2311. <https://doi.org/10.1002/jssc.201601394>
7. Blagonravov M. L., Medvedeva E. V., Bryk A. A., Goryachev V. A., Azova M. M., Velichko E. V. **Specific features of electrolyte excretion at the early stages of arterial hypertension in SHR rats** // *Bulletin of Experimental Biology and Medicine*. – 2017. – V. 164. – No. 1. – P. 15–17. <https://doi.org/10.1007/s10517-017-3915-7>
8. Cerniřev S. **Analysis of lignin-derived phenolic compounds and their transformations in aged wine distillates** // *Food Control*. – 2017. – V. 73. – Part. B. – P. 281–290. <https://doi.org/10.1016/j.foodcont.2016.08.015>
9. Dzema D., Kartsova L., Kapizova D., Appelhans D. **New approach to the formation of physically adsorbed capillary coatings consisting of hyperbranched poly(ethylene imine) with a maltose shell to enhance the separation of catecholamines and proteins in CE** // *Chromatographia*. – 2017. – V. 80. – No. 11. – P. 1683–1693. <https://doi.org/10.1007/s10337-017-3390-3>
10. Dzherayan T. G., Vanifatova N. G., Burmistrov A. A., Lazareva E. V., Rudnev A. V. **Detection and quantification of chitosan aggregates by pressure-assisted capillary zone electrophoresis** // *Journal of Analytical Chemistry*. – 2017. – V. 72. – No. 3. – P. 309–315. <https://doi.org/10.1134/S1061934817030042>
11. Egorova E. Yu., Morozhenko Yu. V., Reznichenko I. Yu. **Identification of aromatic aldehydes in the express assessment of quality of herbal distilled drinks** // *Foods and Raw Materials*. – 2017. – V. 5. – No. 1. – P. 144–153. <https://doi.org/10.21179/2308-4057-2017-1-144-153>

12. Ermolenko Y., Anshakova A., Osipova N., Kamentsev M., Maksimenko O., Balabanyan V., Gelperina S. **Simultaneous determination of rifabutin and human serum albumin in pharmaceutical formulations by capillary electrophoresis** // Journal of Pharmacological and Toxicological Methods. – 2017. – V. 85. – P. 55–60. <https://doi.org/10.1016/j.vascn.2017.01.003>
13. Fakhari A. R., Asadi S., Kosalar H. M., Sahragard A., Hashemzadeh A., Amini M. M. **Metal-organic framework enhanced electromembrane extraction – a conceptual study using basic drugs as model substances** // Analytical Methods. – 2017. – V. 9. – No. 38. – P. 5646–5652. <https://doi.org/10.1039/C7AY01093A>
14. Foteeva L. S., Matczuk M., Pawlak K., Aleksenko S. S., Nosenko S. V., Karandashev V. K., Jarosz M., Timerbaev A. R. **Combination of ICP-MS, capillary electrophoresis, and their hyphenation for probing Ru(III) metallodrug–DNA interactions** // Analytical and Bioanalytical Chemistry. – 2017. – V. 409. – No. 9. – P. 2421–2427. <https://doi.org/10.1007/s00216-017-0186-0>
15. Garmaeva L. L., Nikolaeva I. G., Nikolaeva G. G. **Amino acids from *Rhaponticum uniflorum*** // Chemistry of Natural Compounds. – 2017. – V. 53. – No. 3. – P. 607–608. <https://doi.org/10.1007/s10600-017-2067-3>
16. Il'ina K. V., Gavrilova N. M., Bondarenko E. A., Andrianova M. J., Chusov A. N. **Express-techniques in study of polluted suburban streams** // Magazine of Civil Engineering. – 2017. – No. 8 (76). – P. 241–254. <https://elibrary.ru/item.asp?id=32635050>
17. Khormali A., Petrakov D. G., Moghaddam R. N. **Study of adsorption/desorption properties of a new scale inhibitor package to prevent calcium carbonate formation during water injection in oil reservoirs** // Journal of Petroleum Science and Engineering. – 2017. – V. 153. – P. 257–267. <https://doi.org/10.1016/j.petrol.2017.04.008>
18. Koneva M. S., Usatkov S. V., Bugaets N. A., Tamova M. Yu. **Neural network and regression analysis of the dependence of the ranking score of organoleptic characteristics on the food system composition** // Asian Journal of Pharmaceutics. – 2017. – V. 11. – No. 2. – P. S308–S319. <https://doi.org/10.22377/ajp.v11i02.1270>
19. Krasina I. B., Tarasenko N. A., Nikonovich Yu. N., Krasin P. S. **Features of chemical composition of aromatic raw materials CO₂-meals** // Journal of Pharmaceutical Sciences and Research. – 2017. – V. 9. – No. 4. – P. 332–337. <http://www.jpsr.pharmainfo.in/Documents/Volumes/vol9Issue04/jpsr09041701.pdf>
20. Kratii E., Nikonorov V., Nikitina T. **Optimization of capillary electrophoresis method for the determination of rare earth elements in soils and natural waters** // Microchemical Journal. – 2017. – V. 130. – P. 198–204. <https://doi.org/10.1016/j.microc.2016.09.008>
21. Luan F., Tang L. L., Chen X. X., Liu H. T. **Simultaneous determination of daidzein, genistein and formononetin in coffee by capillary zone electrophoresis** // Separations. – 2017. – V. 4. – No. 1. – Article 1. <https://doi.org/10.3390/separations4010001>
22. Malinina Yu., Kamentsev M. Ya., Moskvina L. N., Yakimova N. M., Kuchumova I. D. **Determination of alkyl- and alkanolamines in drinking and natural waters by capillary electrophoresis with isotachophoretic on-line preconcentration** // Journal of Analytical Chemistry. – 2017. – V. 72. – No. 12. – P. 1239–1242. <https://doi.org/10.1134/S1061934817120085>
23. Malinovskaya J., Melnikov P., Baklaushev V., Gabashvili A., Osipova N., Mantrov S., Ermolenko Yu., Maksimenko O., Gorshkova M., Balabanyan V., Kreuter J., Gelperina S. **Delivery of doxorubicin-loaded PLGA nanoparticles into U87 human glioblastoma cells** // International Journal of Pharmaceutics. – 2017. – V. 524. – No. 1–2. – P. 77–90. <https://doi.org/10.1016/j.ijpharm.2017.03.049>
24. Miroshnikov S. A., Yausheva E. V., Sizova E. A., Kosyan D. B., Donnik I. M. **Research of opportunities for using iron nanoparticles and amino acids in poultry nutrition** // International Journal of GEOMATE. – 2017. – V. 13. – No. 40. – P. 124–131. <https://doi.org/10.21660/2017.40.99216>
25. Moreno D., Berli F., Bottini R., Piccoli P. N., Silva M. F. **Grapevine tissues and phenology differentially affect soluble carbohydrates determination by capillary electrophoresis** // Plant Physiology and Biochemistry. – 2017. – V. 118. – P. 394–399. <https://doi.org/10.1016/j.plaphy.2017.07.010>
26. Nenko N. I., Ilyina I. A., Kiselyova G. K., Sundryeva M. A. **Physiological and biochemical characteristics of resistance of grape varieties of different ecological and geographical origin to the stress factors of summer season** // Austrian Journal of Technical and Natural Sciences. – 2017. – No. 1–2. – P. 3–11. <https://doi.org/10.29013/AJT-17-1.2-3-11>
27. Nosova Y. N., Foteeva L. S., Zenin I. V., Fetisov T. I., Kirsanov K. I., Yakubovskaya M. G., Antonenko T. A., Tafeenko V. A., Aslanov L. A., Lobas A. A., Gorshkov M. V., Galanski M., Keppler B. K., Timerbaev A. R., Milaeva E. R., Nazarov A. A. **Enhancing the cytotoxic activity of anticancer Pt^{IV} complexes by introduction of lonidamine as an axial ligand** // European Journal of Inorganic Chemistry. – 2017. – V. 2017. – No. 12. – P. 1785–1791. <https://doi.org/10.1002/ejic.201600857>
28. Nováková Z., Pejchal V., Fischer J., Česla P. **Chiral separation of benzothiazole derivatives of amino acids using capillary zone electrophoresis** // Journal of Separation Science. – 2017. – V. 40. – No. 3. – P. 798–803. <https://doi.org/10.1002/jssc.201600689>
29. Nugbienyo L., Malinina Y., Garmonov S., Kamencev M., Salahov I., Andruch V., Moskvina L., Bulatov A. **Automated sugaring-out liquid-liquid extraction based on flow system coupled with HPLC-UV for the determination of procainamide in urine** // Talanta. – 2017. – V. 167. – P. 709–713. <https://doi.org/10.1016/j.talanta.2017.02.051>
30. Ostrovskii K. P., Osipova N. S., Vanchugova L. V., Shipulo E. V., Potapov V. D., Pereverzeva É. R., Treshchalina I. D., Maksimenko O. O., Gel'perina S. É. **Efficacy of an intravenous form of rifapentine in a model of experimental tuberculosis in mice** // Pharmaceutical Chemistry Journal. – 2017. – V. 51. – No. 7. – P. 616–621. <https://doi.org/10.1007/s11094-017-1663-7>

31. Popovicheva O. B., Irimiea C., Carpentier Y., Ortega I. K., Kireeva E. D., Shonija N. K., Schwarz J., Vojtišek-Lom M., Focsa C. **Chemical composition of diesel/biodiesel particulate exhaust by FTIR spectroscopy and mass spectrometry: impact of fuel and driving cycle** // *Aerosol and Air Quality Research*. – 2017. – V. 17. – No. 7. – P. 717–734. <https://doi.org/10.4209/aaqr.2017.04.0127>
32. Popovicheva O. B., Shonija N. K., Persiantseva N., Timofeev M., Diapouli E., Eleftheriadis K., Borgese L., Nguyen X. A. **Aerosol pollutants during agricultural biomass burning: A case study in Ba Vi Region in Hanoi, Vietnam** // *Aerosol and Air Quality Research*. – 2017. – V. 17. – No. 11. – P. 2762–2779. <https://doi.org/10.4209/aaqr.2017.03.0111>
33. 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*. – 2017. – V. 9. – No. 4. – P. 597–602. <https://doi.org/10.1002/dta.1989>
34. Tsybiktarova L. P., Nikolaeva I. G., Nikolaeva G. G. **Amino acids from *Serratula centauroides*** // *Chemistry of Natural Compounds*. – 2017. – V. 53. – No. 1. – P. 203–204. <https://doi.org/10.1007/s10600-017-1951-1>
35. Vanifatova N. G., Rudnev A. V., Gabrielyan G. A., Dzheloda R. Kh., Burmistrov A. A., Lazareva E. V., Dzherayan T. G. **Application of pressure in capillary zone electrophoresis to study the aggregation of chitosan 2-hydroxybutoxypropylcarbamate** // *Journal of Analytical Chemistry*. – 2017. – V. 72. – No. 7. – P. 803–809. <https://doi.org/10.1134/S1061934817070140>
36. Xu J., Niu M., Xiao Y. **Hexafluoroisopropanol-induced cationic-surfactants-based coacervate extraction for analysis of lysozyme** // *Analytical and Bioanalytical Chemistry*. – 2017. – V. 409. – No. 5. – P. 1281–1289. <https://doi.org/10.1007/s00216-016-0054-3>
37. Zhang W., He M., Yuan T., Xu W. **A two-step method for rapid characterization of electroosmotic flows in capillary electrophoresis** // *Electrophoresis*. – 2017. – V. 38. – No. 24. – P. 3130–3135. <https://doi.org/10.1002/elps.201700215>

2016

1. Afiatulloev 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. <https://doi.org/10.1134/S1070363216060426>
2. 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. <https://doi.org/10.3844/ojbsci.2016.76.81>
3. 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. <https://doi.org/10.1166/jctn.2016.4567>
4. 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. <https://doi.org/10.1039/C5RA23498K>
5. Barciszewska M., Sucha A., Batabańska 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 19437. <https://doi.org/10.1038/srep19437>
6. 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. <https://doi.org/10.1134/S1061934816070042>
7. 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. <https://doi.org/10.1134/S1061934815110039>
8. Bondarenko E. A., Il'ina Kh. V., Andrianova M. Ju., Chusov A. N. **Main inorganic ions and electric conductivity of polluted urban streams** // *Magazine of Civil Engineering*. – 2016. – No. 8. – P. 37–44. <https://doi.org/10.5862/MCE.68.4>
9. 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. <https://doi.org/10.1016/j.desal.2016.03.003>
10. 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. <http://www.vup.sk/en/index.php?mainID=2&navID=14>
11. 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. <https://doi.org/10.1177/0003702816645353>
12. Iztaev A., Tarabaev B., Abzhanova Sh., Iztayev B., Asangalyeva Zh. **Influence of the ion-ozone cavitations processing on the amino acid structure of wheat grain** // *Biology and Medicine (Aligarh)*. – 2016. – V. 8. – No. 1. – Article BM-161-16.
13. Jiang M., Prokhorova A. F., Rozhmanova N. B., Shpigun O. A. **Electrophoretic separation of some nucleosides for the diagnosis of mastopathy and fibroadenoma** // *Journal of Analytical Chemistry*. – 2016. – V. 71. – No. 12. – P. 1198–1203. <https://doi.org/10.1134/S1061934816120091>
14. Kalmanovich S. A. **The use of fractionated sunflower lecithins for encapsulation of micronutrients** // *Asian Journal of Pharmaceutics*. – 2016. – V. 10. – Article 03. <http://dx.doi.org/10.22377/ajp.v10i03.778>

15. 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 1000128. <https://doi.org/10.4172/2167-7972.1000128>
16. 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. <https://doi.org/10.1007/s10337-016-3099-8>
17. Kamentsev M. Y., Moskvina 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. <https://doi.org/10.1134/S1061934816090100>
18. Kamencev M., Yakimova N., Moskvina 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. <https://doi.org/10.1002/elps.201600265>
19. Khalilova E. A., Kotenko S. T., Islammagomedova E. A., Aliverdieva D. A. **Comparative analysis of fatty acid composition in some *Saccharomyces cerevisiae* strains** // British Microbiology Research Journal. – 2016. – V. 15. – No. 2. – P. 1–6. <https://doi.org/10.9734/BMRJ/2016/26729>
20. Kozlova O. **Analysis of the composition and properties of structure stabilizers for products based on dairy raw materials** // Research Journal of Pharmaceutical, Biological and Chemical Sciences. – 2016. – V. 7. – No. 5. – P. 3051–3057. [http://www.rjpbcs.com/pdf/2016_7\(5\)/\[393\].pdf](http://www.rjpbcs.com/pdf/2016_7(5)/[393].pdf)
21. Krasina I. B., Tarasenko N. A. **Features of a chemical composition of dry leaves of *Stevia vebaudiana*** // Oriental Journal of Chemistry. – 2016. – V. 32. – No. 2. – P. 1171–1180. <http://dx.doi.org/10.13005/ojc/320243>
22. 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. <https://doi.org/10.1134/S1061934816020076>
23. 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. <https://doi.org/10.1002/elps.201500533>
24. 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. <https://doi.org/10.1007/s12161-016-0496-4>
25. 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. <https://doi.org/10.1080/00032719.2015.1124111>
26. 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. <https://doi.org/10.1002/star.20150016>
27. Minich A. S., Minich I. B., Chursina N. L., Ivanitchkiy 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. <https://doi.org/10.17221/93/2015-HORTSCI>
28. 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. <https://doi.org/10.1016/j.gexplo.2015.10.004>
29. Nikonorov V. V., Nikitina T. G. **Capillary electrophoretic determination of silicon in plants** // Microchemical Journal. – 2016. – V. 127. – P. 7–10. <https://doi.org/10.1016/j.microc.2016.01.020>
30. 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 and Air Quality Research. – 2016. – V. 16. – No. 11. – P. 2635–2654. <https://doi.org/10.4209/aaqr.2015.07.0463>
31. Rodin I. A., Stavrianidi A. N., Braun A. V., Baygildiev T. M., Shpigun O. A., Rybalchenko I. V. **Determination of 2-chlorovinylarsonous acid and 2-chlorovinylarsonic acid in water by capillary electrophoresis with direct spectrophotometric detection** // Inorganic Materials. – 2016. – V. 52. – No. 14. – P. 1377–1382. <https://doi.org/10.1134/S0020168516140120>
32. 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. <https://doi.org/10.1007/s11094-016-1444-8>
33. 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. – P. 1–5. <https://doi.org/10.17485/ijst/2016/v9i5/87612>
34. 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. <https://doi.org/10.1007/s12161-015-0347-8>
35. 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. <https://doi.org/10.15389/agrobiology.2016.4.553eng>

36. Smoleń S., Skoczylas Ł., Ledwożyw-Smoleń I., Rakoczy R., Kopeć A., Piątkowska E., Biezanowska-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 Scientiarum Polonorum. Hortorum Cultus. – 2016. – V. 15. – No. 5. – P. 69–91. <http://www.acta.media.pl/pl/main.php?s=7&no=565&p=21&id=5006&lang=pl>
37. 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. <https://doi.org/10.1016/j.chroma.2016.07.032>
38. Tsybiktarova L. P., Nikolaeva I. G., Nikolaeva G. G. **Determination of vitamins B complex in *Serratula centauroides* L.** // World Journal of Pharmaceutical Research. – 2016. – V. 5. – No. 4. – P. 261–265. <https://doi.org/10.20959/wjpr20164-5937>
39. 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. <https://doi.org/10.1039/C5AY02973B>
40. 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. <https://doi.org/10.1016/j.talanta.2016.01.058>

2015

1. Dzherayan T. G., Vanifatova N. G., Fadeeva I. V., Dzheloda 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. <https://doi.org/10.1134/S1061934815050032>
2. 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. <https://doi.org/10.1002/elps.201500268>
3. Falkova M. T., Bulatov A. V., Pushina M. O., Ekimov A. A., Alekseeva G. M., Moskvina 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. <https://doi.org/10.1016/j.talanta.2014.04.092>
4. 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. <https://doi.org/10.1007/s10404-014-1479-7>
5. 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. <https://doi.org/10.1007/s10600-015-1468-4>
6. 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. [http://www.rjpbcs.com/pdf/2016_7\(2\)/861.pdf](http://www.rjpbcs.com/pdf/2016_7(2)/861.pdf)
7. 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. <https://doi.org/10.1016/j.microc.2015.05.013>
8. 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. <https://doi.org/10.1016/j.chroma.2014.11.061>
9. 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 836076. <https://doi.org/10.1155/2015/836076>
10. 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. <https://doi.org/10.1134/S1070427215030167>
11. Kamentsev M. Y., Mamedova S. N., Moskvina 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. <https://doi.org/10.1134/S1061934814120077>
12. Kamencev M., Yakimova N., Moskvina 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. <https://doi.org/10.1002/elps.201500399>
13. Khalilova E. A., Kotenko S. Ts., Islammagomedova E. A., Aliverdieva D. A. **Carboxylic acids of *Saccaromyces cerevisiae* grown in different culture media** // International Journal of Research Studies in Science, Engineering and Technology. – 2015. – V. 2. – No. 8. – P. 62–70. <http://ijrsset.org/pdfs/v2-i8/9.pdf>
14. 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. <https://doi.org/10.1134/S1061934815110076>
15. Kushnereva E. V. **Formation of biogenic amines in wine production** // Applied Biochemistry and Microbiology. – 2015. – V. 51. – No. 1. – P. 108–112. <https://doi.org/10.1134/S0003683815010081>
16. 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. – No. 20. – P. 2530–2537. <https://doi.org/10.1002/elps.201500004>

17. Moskvina 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. <https://doi.org/10.1134/S1061934815060088>
18. 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. <https://doi.org/10.1134/S0036024415090241>
19. 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. <https://doi.org/10.1134/S106193481506009X>
20. Ostroushko A. A., Danilova I. G., Gette I. F., Tonkushina M. O. **Behavior of associates of keplerate-type porous spherical $\text{Mo}_{72}\text{Fe}_{30}$ clusters with metal cations in electric field-driven ion transport** // Russian Journal of Inorganic Chemistry. – 2015. – V. 60. – No. 4. – P. 500–504. <https://doi.org/10.1134/S003602361504018X>
21. 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. Suppl. 10. – P. 1–8. <https://doi.org/10.17485/ijst/2015/v8iS10/84882>
22. 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. <https://doi.org/10.1007/s11356-014-3688-8>
23. 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. – Article 973973. <https://doi.org/10.1155/2015/973973>
24. Šír M., Honzajková Z. **Treatment of municipal landfill leachate by the process of reverse osmosis and evaporation** // Fresenius Environmental Bulletin. – 2015. – V. 24. – No. 6a. – P. 2245–2250. [http://dx.doi.org/10.1016/S0956-053X\(02\)00079-X](http://dx.doi.org/10.1016/S0956-053X(02)00079-X)
25. 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. <https://doi.org/10.5539/mas.v9n10p17>
26. 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. http://nbuv.gov.ua/UJRN/VPhC_2015_2_5
27. 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. <https://doi.org/10.12737/11238>
28. 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. <https://doi.org/10.1016/j.chroma.2015.06.057>
29. 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. <https://doi.org/10.1002/elps.201400370>
30. Timofeeva I., Khubaibullin I., Kamencev M., Moskvina 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. <https://doi.org/10.1016/j.talanta.2014.04.081>
31. 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. <https://doi.org/10.1007/s11094-015-1278-9>
32. Vakh C., Freze E., Pochivalov A., Evdokimova E., Kamencev M., Moskvina L., Bulatov A. **Simultaneous determination of iron(II) and ascorbic acid in pharmaceuticals based on flow sandwich technique** // Journal of Pharmacological and Toxicological Methods. – 2015. – V. 73. – P. 56–62. <https://doi.org/10.1016/j.vascn.2015.03.006>
33. 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. – No. 1. – P. 185–192. <https://doi.org/10.1007/s00604-014-1316-4>
34. 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. <https://doi.org/10.1002/elps.201500085>
35. 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. <https://doi.org/10.1002/jsfa.6834>
36. 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. <https://doi.org/10.1016/j.talanta.2014.08.030>
37. Zhdanov A. A., Shuvaeva O. V. **A study of complex phosphovanadomolybdates $[\text{PV}_x\text{Mo}_{12-x}\text{O}_{40}]^{-(3+x)}$ by reversed-phase HPLC and capillary zone electrophoresis** // Journal of Analytical Chemistry. – 2015. – V. 70. – No. 6. – P. 757–764. <https://doi.org/10.1134/S1061934815060192>
38. 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. <https://doi.org/10.1134/S1068162015040159>

39. 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. <https://doi.org/10.1007/s10692-015-9668-z>

2014

1. 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. [http://www.rjpbcs.com/pdf/2014_5\(5\)/\[281\].pdf](http://www.rjpbcs.com/pdf/2014_5(5)/[281].pdf)
2. 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. <https://doi.org/10.1134/S1064229314010025>
3. Asano N., Strusovskaya O. G., Kosyakov D. S., Pokryshkin S. A., Gavrilin M. V., Mudretsova J. V. **Identification of calystegines in plants of family Ericaceae with gas chromatography – mass spectrometry method** // Chemistry of Plant Raw Material. – 2014. – No. 2. – P. 207–212. <https://doi.org/10.14258/jcprm.1402207>
4. 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. <https://doi.org/10.1007/s13738-013-0298-1>
5. 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. <https://doi.org/10.1002/elps.201300562>
6. 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. <https://doi.org/10.1134/S106193481311004X>
7. 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. – No. 1. – P. 89–97. <https://doi.org/10.1134/S1061934814010055>
8. 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. <https://doi.org/10.1134/S1061934814100037>
9. 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. http://jms.procedia.org/archive/IJPGE_978/IJPGE_procedia_2014_2_1_3.pdf
10. 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. http://jms.procedia.org/archive/IJMSI_202/IJMSI_procedia_2014_2_2_1.pdf
11. 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. <https://doi.org/10.1016/j.lwt.2014.03.038>
12. 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. <https://doi.org/10.1016/j.tca.2014.08.035>
13. 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. <https://doi.org/10.1002/elps.201400135>
14. 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. <https://doi.org/10.1080/00958972.2014.938065>
15. 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. <https://doi.org/10.1002/elps.201400135>
16. 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. <https://doi.org/10.1039/C4AY00481G>
17. Matczuk M., Foteeva 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. <https://doi.org/10.1016/j.chroma.2014.04.022>
18. 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. <https://doi.org/10.1002/chir.22334>
19. 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. – 2014. <http://go.galegroup.com/ps/s?id=GALE%7CA381666512&sid=googleScholar&v=2.1&it=r&linkaccess=fulltext&issn=&p=AONE&sw=w&authCount=1&isAnonymousEntry=true>
20. 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. http://agronomy.emu.ee/vol123/2014_3_9_b5.pdf

21. 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. <https://doi.org/10.4209/aaqr.2013.11.0336>
22. 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. <https://doi.org/10.3103/S0027131414040099>
23. 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. <https://doi.org/10.1134/S0003683814090063>
24. 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. <https://doi.org/10.1002/chir.22344>
25. Tabani H., Fakhari A. R., Shahsavani A. S., Alibabau 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. <https://doi.org/10.1002/chir.22308>
26. 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. <https://doi.org/10.5740/jaoacint.12-268>

2013

1. 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. <https://doi.org/10.1134/S1061934813050031>
2. 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. <https://doi.org/10.1016/j.microc.2012.06.010>
3. 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. <https://doi.org/10.1016/j.aca.2012.12.046>
4. 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. <https://doi.org/10.1016/j.chroma.2013.01.115>
5. 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. <https://doi.org/10.1002/jsfa.6181>
6. Kirsanova Yu. A., Chernov'yants M. S., Burykin I. V. **Electrophoretic determination of phenyl and p-bromophenyl substituted 1H,2H,3H,4H-pyrido[4,3-d]pyrimidinium diiodobromides** // Journal of Analytical Chemistry. – 2013. – V. 68. – No. 11. – P. 977–980. <https://doi.org/10.1134/S1061934813110063>
7. Lebedeva M. V., Bulgakova G. A., Prokhorova A. F., Shapovalova E. N., Chernobrovkin M. G., Shpigun O. A. **Azithromycin for enantioseparation of tetrahydrozoline in NACE** // Chromatographia. – 2013. – V. 76. – No. 7–8. – P. 375–379. <https://doi.org/10.1007/s10337-012-2347-9>
8. 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. <https://doi.org/10.1007/s40242-013-2325-2>
9. 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. <https://doi.org/10.1002/elps.201300117>
10. 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. <https://doi.org/10.1021/jf400864q>
11. 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. <https://doi.org/10.1007/s12161-012-9429-z>
12. 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. <https://doi.org/10.1080/10826076.2012.668736>
13. Rodin I., Stavrianidi A., Smirnov R., Braun A., Shpigun 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. <https://doi.org/10.1080/15275922.2013.781079>
14. 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. <https://doi.org/10.1134/S1061934813080091>

15. 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. <https://doi.org/10.1134/S1061934813030118>
16. Šír M., Honzajková Z., Podhola M., Patočka T., Kocurek P., Bystrianský 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. <https://doi.org/10.1080/19443994.2012.714858>
17. 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. <https://doi.org/10.1603/EC13096>
18. 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. <https://doi.org/10.1002/elps.201200330>
19. 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. <https://doi.org/10.1016/j.chroma.2013.04.026>
20. 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. <https://doi.org/10.1039/C3AY26252A>
21. 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. <https://doi.org/10.1002/elps.201300118>
22. Wang Q., Bao B., Chen Y., Dai N. **Simultaneous determination of six flavonoids in rat plasma by high-performance capillary electrophoresis and its application to a pharmacokinetic study** // Journal of Food and Drug Analysis. – 2013. – V. 21. – No. 4. – P. 369–375. <https://doi.org/10.1016/j.jfda.2013.08.004>
23. 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. <https://doi.org/10.1039/C2AY26090E>
24. 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. <https://doi.org/10.1080/10826076.2012.731669>

2012

1. 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. <https://doi.org/10.1134/S1061934812020037>
2. Amelin V. G., Bol'shakov D. S., Tret'yakov 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. <https://doi.org/10.1134/S106193481209002X>
3. 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. <https://doi.org/10.1002/elps.201100426>
4. 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. <https://doi.org/10.1007/s11094-012-0798-9>
5. Golubenko A. M., Nikonov 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. <https://doi.org/10.1134/S1061934812090055>
6. 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. <https://doi.org/10.1093/chromsci/bmr010>
7. 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. <https://doi.org/10.1134/S1061934812070039>
8. Kompantsev D. V. **Stability of glucosamine dosage forms** // Russian Journal of General Chemistry. – 2012. – V. 82. – No. 3. – P. 579–585. <https://doi.org/10.1134/S1070363212030371>
9. 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. <https://doi.org/10.1002/jssc.201101076>
10. Kucher A., Smirnov A., Parastayeva M., Beresneva O., Kayukov I., Zubina I., Ivanova G. **The influence of high protein soy bean diet on blood serum nitrate level in spontaneously hypertensive rats with experimental renal failure** // Nephrology Dialysis Transplantation. – 2012. – V. 27. – Suppl. 2. – P. ii439. <https://doi.org/10.1093/ndt/gfs241>
11. Lebedeva M. V., Bulgakova G. A., Prokhorova A. F., Shapovalova E. N., Chernobrovkin M. G., Shpigun O. A. **Azithromycin for enantioseparation of tetrahyd rozoline in NACE** // Chromatographia. – 2012. – V. 76. – No. 7–8. – P. 375–379. <https://doi.org/10.1007/s10337-012-2347-9>

12. 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. <https://doi.org/10.1002/jsfa.4677>
13. 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. <https://doi.org/10.1039/C2AY25488C>
14. 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. <https://doi.org/10.1007/s12161-011-9225-1>
15. 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. <https://doi.org/10.1039/C1AN15932A>
16. 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. <https://doi.org/10.1002/jssc.201200229>
17. 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. <https://doi.org/10.1134/S0036023612090173>
18. 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. <https://doi.org/10.1134/S1061934812030100>
19. 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. <https://doi.org/10.1134/S1061934812060159>
20. Sidorova A. A., Grigoriev A. V. **Determination of diagnostic markers of urolithiasis by capillary electrophoresis** // Journal of Analytical Chemistry. – 2012. – V. 67. – No. 5. – P. 478–485. <https://doi.org/10.1134/S1061934812050115>
21. 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. <https://doi.org/10.1016/j.jhazmat.2011.08.079>
22. 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. <https://doi.org/10.1134/S1070427212070014>
23. 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. <https://doi.org/10.1002/elps.201250004>
24. 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. <https://doi.org/10.1556/AChrom.24.2012.4.1>
25. 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. <https://doi.org/10.1016/j.chroma.2012.09.076>
26. Zhang Y., Huang L., Chen Q., Chen Z. **A silica monolithic column with chemically bonded L-pipecolic 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. <https://doi.org/10.1007/s10337-012-2188-6>
27. 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. <https://doi.org/10.1002/elps.201100469>

2011

1. 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. <https://doi.org/10.1134/S1061934811070021>
2. 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** // La Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales. – 2011. – V. 35. – No. 136. – P. 371–379. (In Spanish). http://www.scielo.org.co/scielo.php?script=sci_arttext&pid=S0370-39082011000300010
3. 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. <https://doi.org/10.1134/S1061934811010023>
4. 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. <https://doi.org/10.1007/s11224-011-9765-4>
5. 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. <https://doi.org/10.1016/j.jpba.2011.02.011>

6. 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. <https://doi.org/10.1002/cjoc.201190043>
7. 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. <https://doi.org/10.1002/jssc.201000693>
8. 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. <https://doi.org/10.1002/jssc.201100021>
9. 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. <https://doi.org/10.1002/elps.201000607>
10. 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.
11. Papiieva I. S., Kirsanov D. O., Legin A. V., Kartsova L. A., Alekseeva A. V., Vlasov Yu. G., Bhattacharyya N., Sarkar S., Bandyopadkhyay 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. <https://doi.org/10.1134/S1070427211060115>
12. Prokhorova A. F., Shapovalova E. N., Popov D. S., Shpigun 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. <https://doi.org/10.1134/S1061934811050145>
13. 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. <https://doi.org/10.1016/j.mencom.2011.07.014>
14. 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. <https://doi.org/10.1134/S1061934811030166>
15. 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. <https://doi.org/10.1016/j.foodchem.2010.11.168>

2010

1. 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. <https://doi.org/10.1134/S1061934810020176>
2. Amelin V. G., Nikolaev Yu. N., Lomonosov I. A., Aleshin 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. <https://doi.org/10.1134/S1061934810050035>
3. 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. <https://doi.org/10.1134/S1061934810010120>
4. 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. <https://doi.org/10.1002/jssc.201000135>
5. 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. <https://doi.org/10.1007/s11094-010-0506-6>
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. <https://doi.org/10.1134/S1061934810030123>
7. 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. <https://doi.org/10.1134/S1061934810020188>
8. 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. <https://doi.org/10.1016/j.chroma.2010.08.062>
9. Moskvina 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. <https://doi.org/10.1134/S1061934810010193>
10. Narezhnaya E. V., Askalepova O. I., Nikashina A. A., Krukier 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. <https://doi.org/10.1134/S1061934810120130>
11. Nikonov 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. <https://doi.org/10.1134/S1061934810040040>

12. 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. <https://doi.org/10.1002/jssc.201000242>
13. 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. http://www.minproc.pwr.wroc.pl/journal/pdf/2010/spis_mat2010.htm http://www.dbc.wroc.pl/Content/10162/44_2010_.pdf
14. 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. <https://doi.org/10.1134/S107042721011008X>
15. Ponomareva E. A., Kartuzova V. E., Vlach 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. <https://doi.org/10.1016/j.jchromb.2010.01.001>
16. 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 chitosan-modified capillary** // Procedia Chemistry. – 2010. – V. 2. – No. 1. – P. 9–13. <https://doi.org/10.1016/j.proche.2009.12.004>
17. 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. <https://doi.org/10.3103/S0027131410050032>
18. 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. <https://doi.org/10.1007/s00216-010-3711-y>
19. 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. <https://doi.org/10.3103/S0027131410010062>
20. Vanifatova N. G., Spivakov B. Y., Belogorokhov 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. <https://doi.org/10.1504/IJNP.2010.033222>
21. 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. <https://doi.org/10.1002/elps.200900425>
22. 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. <https://doi.org/10.1556/AChrom.22.2010.3.8>
23. 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. <https://doi.org/10.1002/jsfa.4066>
24. 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. <https://doi.org/10.1365/s10337-010-1775-7>
25. 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. <https://doi.org/10.1134/S106193481001017X>

2009

1. 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. <https://doi.org/10.1134/S106193480911015X>
2. 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. <https://doi.org/10.1134/S1061934809120132>
3. 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. <https://doi.org/10.1016/j.scitotenv.2008.11.023>
4. 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. <https://doi.org/10.1007/s11094-010-0355-3>
5. Kartsova L. A., Alekseeva A. V., Khmel'nitskii I. K., Komissarchik S. M., Nyanikova G. G., Berezkin V. G. **Electromigration methods in the determination of synthetic food dyes** // Journal of Analytical Chemistry. – 2009. – V. 64. – No. 12. – P. 1264–1269. <https://doi.org/10.1134/S1061934809120119>
6. 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. <https://doi.org/10.1134/S1061934809050153>
7. 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. <https://doi.org/10.1134/S1061934809020117>

8. Koshcheeva O. S., Shuvaeva 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. <https://doi.org/10.1002/elps.200800384>
9. 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. <https://doi.org/10.1365/s10337-009-1247-0>
10. 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. <https://doi.org/10.1080/10826070903248411>
11. 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. <https://doi.org/10.1016/j.aca.2009.02.006>
12. Prokhorova A. F., Shapovalova E. N., Shpak A. V., Staroverov S. M., Shpigun O. A. **Enantiorecognition of profens by capillary electrophoresis using a novel chiral selector eremomycin** // *Journal of Chromatography A*. – 2009. – V. 1216. – No. 17. – P. 3674–3677. <https://doi.org/10.1016/j.chroma.2009.02.017>
13. 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. <https://doi.org/10.1007/s11094-010-0360-6>
14. Téllez A., Kenndler E. **Formamide as an organic modifier in MEKC with SDS** // *Electrophoresis*. – 2009. – V. 30. – No. 2. – P. 357–364. <https://doi.org/10.1002/elps.200800329>
15. 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. <https://doi.org/10.1002/jssc.200800513>
16. 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. <https://doi.org/10.1016/j.talanta.2008.07.060>

2008

1. 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. <https://doi.org/10.3390/s8020594>
2. 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. <https://doi.org/10.1134/S1061934808070137>
3. Chernov'yants M. S., Dolinkin A. O., Braslavskaya I. V. **Chromatographic determination of 6-substituted 2-thiouracils, thyrostatic preparations** // *Journal of Analytical Chemistry*. – 2008. – V. 63. – No. 9. – P. 848–851. <https://doi.org/10.1134/S1061934808090086>
4. Fakhari A. R., Nojavan S., Haghgoo 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. <https://doi.org/10.1002/elps.200800330>
5. Foteeva 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. <https://doi.org/10.1016/j.jpba.2008.05.017>
6. 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. <https://doi.org/10.1134/S1070427208100108>
7. 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. <https://doi.org/10.1134/S1061934808110154>
8. Kozłowski 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. <https://doi.org/10.1016/j.memsci.2007.11.004>
9. 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. <https://doi.org/10.1002/chir.20485>
10. 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. <https://doi.org/10.1016/j.chroma.2008.08.017>
11. 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. <https://doi.org/10.1556/AChrom.20.2008.2.8>
12. 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. <https://doi.org/10.1002/elps.200700956>

13. 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. <https://doi.org/10.1016/j.talanta.2007.10.037>
14. Polyakova E. V., Shuvaeva O. V., Saprykin A. I. **Chlorine impurity content of Bi₂O₃ and GeO₂** // *Inorganic Materials*. – 2008. – V. 44. – No. 9. – P. 986–989. <https://doi.org/10.1134/S0020168508090161>
15. Polyakova E. V., Shuvaeva O. V. **Determination of chloride ion in bismuth oxide by capillary electrophoresis** // *Journal of Analytical Chemistry*. – 2008. – V. 63. – No. 4. – P. 391–394. <https://doi.org/10.1007/s10809-008-4014-8>
16. 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. <https://doi.org/10.1080/10826070802480008>
17. Sokol E. V., Nokhrin D. Yu., Nigmatulina E. N., Gribovskii Yu. G. **Environmental-geochemical state of the Yuzhnoural'skaya SDPP reservoir** // *Water Resources*. – 2008. – V. 35. – No. 6. – P. 686–700. <https://doi.org/10.1134/S0097807808060080>
18. 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. <https://doi.org/10.1002/elps.200800130>
19. 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. <https://doi.org/10.1016/j.chroma.2008.01.004>
20. 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. <https://doi.org/10.1016/j.ultsonch.2007.12.008>
21. 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. <https://doi.org/10.1016/j.talanta.2007.06.030>
22. 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. <https://doi.org/10.1002/jssc.200700518>
23. 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. <https://doi.org/10.1016/j.talanta.2007.11.007>
24. 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. <https://doi.org/10.1134/S1064229308120065>
25. 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. <https://doi.org/10.1002/pca.1054>

2007

1. 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. <https://doi.org/10.1134/S1061934807030124>
2. 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. <https://doi.org/10.1134/S1061934807010078>
3. 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. <https://doi.org/10.1007/s11094-007-0085-3>
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. <https://doi.org/10.1134/S1061934807020141>
5. 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. <https://doi.org/10.1134/S1061934807080035>
6. Kozłowska J., Kozłowski 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. <https://doi.org/10.1016/j.seppur.2006.04.011>
7. Kozłowski C. A., Walkowiak W. **Selective removal of Cu(II), Co(II), Zn(II), and Ni(II) with ionizable dibenzo-16-Crown-5 and dibenzo-19-Crown-6 lariat ethers as ion carriers in polymer inclusion membrane transport** // *Ars Separatoria Acta*. – 2007. – No. 5. – P. 19–26. <https://www.infona.pl/resource/bwmeta1.element.baztech-article-BATA-0007-0045>
8. 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. <https://doi.org/10.2478/s11532-006-0059-4>
9. 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. <http://www.paper.edu.cn/releasepaper/content/200705-37>

10. 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. <https://doi.org/10.1002/elps.200700121>
11. 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. – Año XIII. – No. 33. – P. 173–175. (In Spanish). <https://doi.org/10.22517/23447214.6103>
12. 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. <https://doi.org/10.1007/s11094-007-0097-z>
13. Timerbaev A. R., Foteeva 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. <https://doi.org/10.1002/elps.200600707>
14. Timerbaev A. R., Vasilenko O. O., Foteeva 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. <https://doi.org/10.1002/jssc.200600305>
15. 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. <https://doi.org/10.1016/j.jchromb.2006.10.060>

2006

1. 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. <https://doi.org/10.1134/S1061934806010035>
2. 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. <http://www.jstor.org/stable/20619437>
3. 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. <https://jjc.yu.edu.jo/index.php/jjc/article/view/355>
4. Pankratova L. N., Rudnev A. V. **Radiation-chemical processes in polyorganosiloxanes** // *High Energy Chemistry*. – 2006. – V. 40. – No. 3. – P. 154–157. <https://doi.org/10.1134/S0018143906030052>
5. Rudnev A. V., Dzherayan T. G. **Determination of polyhexamethyleneguanidine by capillary electrophoresis** // *Journal of Analytical Chemistry*. – 2006. – V. 61. – No. 10. – P. 1002–1006. <https://doi.org/10.1134/S1061934806100091>
6. Rudnev A. V., Foteeva 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. <https://doi.org/10.1016/j.jinorgbio.2006.07.003>
7. 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. <https://doi.org/10.1134/S1061934806010035>
8. 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. <http://www.cnki.com.cn/Article/CJFDTOTAL-FXKB200602026.htm>
9. 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. <https://doi.org/10.1016/j.chroma.2005.10.057>

2005

1. Bekasova O. D., Brekhovskikh A. A., Brykina G. D., Dubinchuk B. T., Mochalova V. S., Kotelnikov A. S. **R-Phycocerythrin: 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. <https://doi.org/10.1007/s10438-005-0046-0>
2. 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. <https://doi.org/10.1016/j.chroma.2005.04.075>
3. 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. <https://doi.org/10.1007/s10595-005-0088-2>
4. Rudnev A. V., Aleksenko 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. <https://doi.org/10.1002/jssc.200401930>

5. Timerbaev A. R., Rudnev A. V., Semenova O., Hartinger Ch. G., Keppler B. K. **Comparative binding of antitumor indazolium [*trans*-tetrachlorobis(1*H*-indazole)ruthenate(III)] to serum transport proteins assayed by capillary zone electrophoresis** // Analytical Biochemistry. – 2005. – V. 341. – No. 2. – P. 326–333. <https://doi.org/10.1016/j.ab.2005.03.020>
6. 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. <https://doi.org/10.1002/elps.200500043>
7. 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. <https://doi.org/10.1002/elps.200410260>
8. 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. <https://doi.org/10.1365/s10337-005-0624-6>

2004

1. 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. <https://doi.org/10.1002/elps.200405970>
2. 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. <https://doi.org/10.1365/s10337-003-0138-z>
3. 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. <https://doi.org/10.1023/B:JANC.0000030881.73183.4b>
4. 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. <https://doi.org/10.1023/B:RJAC.0000044165.62665.85>
5. 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. <https://doi.org/10.1007/b13435>
6. 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. <https://doi.org/10.1016/j.jchromb.2003.08.052>
7. 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. <https://doi.org/10.1023/B:JANC.0000035280.05830.a7>
8. 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. <https://doi.org/10.1023/B:JANC.0000035281.21489.16>
9. 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. <https://doi.org/10.1023/B:JANC.0000014742.00764.0b>
10. Vinsova 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. <https://doi.org/10.1023/B:JRNC.0000034878.72774.53>
11. 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. <https://doi.org/10.1016/j.chroma.2004.06.003>

2003

1. Ivanova M., Piunti A., Marziali E., Komarova N., Raggi M. A., Kennidler E. **Microemulsion electrokinetic chromatography applied for separation of levetiracetam from other antiepileptic drugs in polypharmacy** // Electrophoresis. – 2003. – V. 24. – No. 6. – P. 992–998. <https://doi.org/10.1002/elps.200390143>
2. 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. <https://doi.org/10.1023/A:1026187919126>
3. 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. <https://doi.org/10.1023/A:1023385612778>
4. Komarova N. V., Kartsova L. A. **Determination of herbicides of the chlorophenoxy-carboxylic acid type in natural and drinking water by capillary zone electrophoresis** // Russian Journal of Applied Chemistry. – 2003. – V. 76. – No. 2. – P. 238–243. <https://doi.org/10.1023/A:1024646411409>
5. 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. <https://doi.org/10.1023/A:1025099930530>

6. 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. [https://doi.org/10.1016/S0021-9673\(02\)01798-3](https://doi.org/10.1016/S0021-9673(02)01798-3)
7. 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. <https://doi.org/10.1093/chromsci/41.3.137>
8. 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. <https://doi.org/10.1023/B:PHAC.0000016076.03229.67>
9. Manaenkov O. V., Sidorov A. I., Sul'man E. M. **Rapid determination of amino acids by capillary electrophoresis without preliminary derivatization** // Journal of Analytical Chemistry. – 2003. – V. 58. – No. 10. – P. 979–982. <https://doi.org/10.1023/A:1026140003197>
10. 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. <https://doi.org/10.1023/A:1024719028055>
11. 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. <https://doi.org/10.1007/s00216-003-1812-6>
12. 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. <https://doi.org/10.1023/A:1024086316240>
13. 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. <https://doi.org/10.1002/elps.200305437>
14. 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. <https://doi.org/10.1023/A:1024714927146>

2002

1. Bershevits O., Besschetnova T., Markelov M. **Analysis of organic acids in biological samples by capillary electrophoresis** // Abstr. Pittsburg Conference on Analytical Chemistry and Spectroscopy PittCon'2002 (New Orleans, USA, March 17–22, 2002). – Abstr. 1527P.
2. Kartsova L. A., Komarova N. V. **Investigation of factors influencing on selectivity and efficiency by complicated mixture of organic compounds separation using capillary electrophoresis** // Abstr. 13th International symposium on capillary electroseparation techniques ITP 2002 (Helsinki, Finland, September 1–4, 2002). – P. 67.
3. Komarova N. V., Kartsova L. A. **Direct determination of amino acid composition in fodder by capillary zone electrophoresis with cyclodextrins** // Abstr. 13th International symposium on capillary electroseparation techniques ITP 2002 (Helsinki, Finland, September 1–4, 2002). – P. 68.
4. Komarova N. V., Kartsova L. A. **Optimizing separation conditions for chlorophenoxy carboxylic acid herbicides in natural and potable water using capillary zone electrophoresis** // Journal of Analytical Chemistry. – 2002. – V. 57. – No. 7. – P. 644–650. <https://doi.org/10.1023/A:1016294404942>
5. Marziali E., Raggi M. A., Komarova N., Kenndler E. **Octakis-6-sulfato- γ -cyclodextrin as additive for capillary electrokinetic chromatography of dibenzoazepines: carbamazepine, oxcarbamazepine and their metabolites** // Electrophoresis. – 2002. – V. 23. – No. 17. – P. 3020–3026. [https://doi.org/10.1002/1522-2683\(200209\)23:17%3C3020::AID-ELPS3020%3E3.0.CO;2-%23](https://doi.org/10.1002/1522-2683(200209)23:17%3C3020::AID-ELPS3020%3E3.0.CO;2-%23)

2001

1. Kartsova L., Komarova N. **Capillary electrophoresis in analysis of chlorophenoxy acid herbicides and triazines in water** // Abstr. 1st Baltic symposium on environmental chemistry (Tartu, Estonia, September 26–29, 2001). – P. 112–113.
2. Komarova N. V., Kartsova L. A., Krasheninnikov A. A. **Analysis of priority pesticides including chlorophenoxy acid herbicides and s-triazines in water samples by capillary electrophoresis** // Abstr. 2nd International Symposium «Separation in the BioScience SBS 2001» (Prague, Czech Republic, September 17–20, 2001). – P. 96. – Poster 36.

2000

1. Besschetnova T., Okun V., Krasheninnikov A. **Capillary electrophoresis for the analysis of inorganic anions in natural and waste water samples with enormously high concentration of iron** // Proc. 13th International symposium on high performance capillary electrophoresis and related microscale techniques (Saarbrücken, Germany, February 20–24, 2000). – P. 189.
2. Shi X. Y., Fan R. F., Zhang Y. Q., Gu J. L., Fu R. N. **Synthesis and characterization of water-soluble carboxymethyl-cyclodextrin polymer as capillary electrophoresis chiral selector** // Chinese Chemical Letters. – 2000. – V. 11. – No. 1. – P. 69–70. http://d.g.wanfangdata.com.cn/Periodical_zghxkb200001024.aspx

