

Publikace vydané v roce 2022

Stav ke dni: 20. 9. 2022

Alexa, Lukáš - Mikuška, Pavel - Ryšavý, M.

Kondenzačně-růstová jednotka pro aerosolový vzorkovač.

[Condensation-growth unit for aerosol sampler.]

2022. **Vlastník:** Ústav analytické chemie AV ČR, v. v. i. Datum udělení vzoru: 07.06.2022.**Číslo vzoru:** 36112**Obor OECD:** Analytical chemistry<http://hdl.handle.net/11104/0331871>**Alexa, Lukáš - Mikuška, Pavel**

A novel device for on-line determination of ammonia/ammonium in ambient air.

9th IUPAC International Conference on Green Chemistry : Conference Proceedings. Athens:

Association of Greek Chemists, 2022. s. 608-608, č. článku THU-79..

[IUPAC International Conference on Green Chemistry /9./ 05.09.2022-09.09.2022, Athens]

Obor OECD: Analytical chemistry<https://hdl.handle.net/11104/0333812>**Brtko, J. - Strouhalová, Dana - Toporová, L. - Macejová, D. - Bobálová, Janette**

Selected Triorganotin Compounds in the Absence or Presence of Natural Retinoid Affect Expression of Proteins Associated With Tumour Progression in Human Breast Cancer Mda-mb-231 Cells.

European Pharmaceutical Journal. Roč. 69, s1 (2022), s. 34-34. ISSN 1338-6786. E-ISSN 1338-6786.

[Farmakologické dni 2022. 22.06.2022-24.06.2022, Bratislava]

Obor OECD: Analytical chemistry[DOI: 10.2478/afpuc-2022-0009](https://doi.org/10.2478/afpuc-2022-0009)<https://hdl.handle.net/11104/0332694>**Cassani, M. - Fernandes, S. - Oliver-De la Cruz, J. - Foret, František - Cavalieri, F. - Caruso, F. - Forte, G.**

YAP drives nanoparticle-cell association: Towards the understanding of bio-nano interactions through mechanobiology.

Tissue Engineering Part A. Roč. 28, S1 (2022), s. 119-119, č. článku 435. ISSN 1937-3341. E-ISSN 1937-335X**Obor OECD:** Analytical chemistry<https://hdl.handle.net/11104/0333090>**Cigánková, Hana - Mikuška, Pavel**

Elements bioaccessibility and oxidative of urban aerosol in three simulated lung fluids.

Czech Chemical Society Symposium Series. "Amerika" 21st, č. 20 (2022), s. 9-9. ISSN 2336-7202.

[Mezioborové setkání mladých biologů, biochemiků a chemiků /21./ 16.05.2022-19.05.2022, Milovy]

Obor OECD: Analytical chemistry

<https://hdl.handle.net/11104/0333391>

Coufalík, Pavel - Zvěřina, O. - Sádovská, K. - Komárek, J.

Stanovení selenu pomocí HG-AAS.

[Selenium determination by HG-AAS.]

Workshop Speciační analýza 2022. Brno: Spektroskopická společnost Jana Marka Marci, 2022 - (Komárek, J.). s. 10-10. ISBN 978-80-88195-31-3.

[Workshop Speciační analýza 2022. 13.06.2022-16.06.2022, Skalka u Ježova]

Obor OECD: Analytical chemistry

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<https://hdl.handle.net/11104/0331985>

Čmelík, Richard - Smolková, Denisa - Duša, Filip - Lavická, Jana

Concentration of bacteria from large sample volumes using roughened capillary with subsequent analysis by CE and MALDI-TOF MS.

Book of Abstracts : 26th International Symposium on Separation Sciences. Ljubljana:

National Institute of Chemistry, 2022 - (Vovk, I.; Glavnik, V.; Bensa, M.). s. 119-119. ISBN 978-961-6104-78-4.

[International Symposium on Separation Sciences /26./ 28.06.2022-01.07.2022, Ljubljana]

Obor OECD: Analytical chemistry

<https://hdl.handle.net/11104/0332607>

da Silva Coelho Junior, Gilberto - Borges, D. L. - Svoboda, Milan - Dědina, Jiří - Kratzer, Jan

Plasma-mediated vapor generation by dielectric barrier discharge: direct analysis of mercury by AAS.

Book of Abstracts: European Symposium on Atomic Spectrometry - Czech-Slovak

Spectroscopic Conference 2022. Brno: Ioannes Marcus Marci Spectroscopic Society, 2022. s. 164-164. ISBN 978-80-88195-41-2.

[European Symposium on Atomic Spectrometry 2022 - Czech-Slovak Spectroscopic Conference /17./ 04.09.2022-09.09.2022, Brno]

Obor OECD: Analytical chemistry

<https://hdl.handle.net/11104/0333747>

Dědina, Jiří

Nonplasma devices for atomization and detection of volatile metal species by atomic absorption and fluorescence.

Vapor Generation Techniques for Trace Element Analysis: Fundamental Aspects. Elsevier, 2022 - (D'Ulivo, A.; Sturgeon, R.), s. 349-401. ISBN 978-0-323-85834-2

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DOI: [10.1016/B978-0-323-85834-2.00010-0](https://doi.org/10.1016/B978-0-323-85834-2.00010-0)

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Dědina, Jiří - Kratzer, Jan - Svoboda, Milan - Musil, Stanislav - Štádlarová, Barbora - Lacko, Michal - Dryahina, Kseniya - Španěl, Patrik - Matoušek, Tomáš - Obrusník, A. - Voráč, J. - Mrkvičková, M. - Dvořák, P.

Employing laser induced fluorescence and selected ion flow tube mass spectrometry to

understand what happens in hydride atomizers.

Book of Abstracts: European Symposium on Atomic Spectrometry - Czech-Slovak Spectroscopic Conference 2022. Brno: Ioannes Marcus Marci Spectroscopic Society, 2022. s. 54-54. ISBN 978-80-88195-41-2.

[European Symposium on Atomic Spectrometry 2022 - Czech-Slovak Spectroscopic Conference /17./ 04.09.2022-09.09.2022, Brno]

Obor OECD: Analytical chemistry

<https://hdl.handle.net/11104/0333760>

Dosedělová, Věra - Foret, František - Doubková, M. - Brat, K. - Kubáň, Petr

A novel temperature-controlled open source microcontroller based sampler for collection of exhaled breath condensate in point-of-care diagnostics.

Talanta. Roč. 237, JAN (2022), s. 1-8, č. článku 122984. ISSN 0039-9140. E-ISSN 1873-3573

Obor OECD: Analytical chemistry

Impakt faktor: 6.556, rok: 2021

Způsob publikování: Omezený přístup

[DOI: 10.1016/j.talanta.2021.122984](https://doi.org/10.1016/j.talanta.2021.122984)

<http://hdl.handle.net/11104/0323492>

Dosedělová, Věra - Laštovičková, Markéta - Ayala-Cabrera, J. F. - Dolina, J. - Konečný, S. - Schmitz, O. J. - Kubáň, Petr

Quantification and identification of bile acids in saliva by liquid chromatography-mass spectrometry: Possible non-invasive diagnostics of Barrett's esophagus?

Journal of Chromatography A. Roč. 1676, AUG (2022), s. 1-13, č. článku 463287. ISSN 0021-9673. E-ISSN 1873-3778

Obor OECD: Analytical chemistry

Impakt faktor: 4.601, rok: 2021

Způsob publikování: Omezený přístup

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Duša, Filip - Šalplachta, Jiří - Horká, Marie - Lunerová, K. - Rosenbergová, K. - Kubiček, O.

Novel chip-based isoelectric focusing device for fractionation of bacteria prior to their mass spectrometry identification.

Analytica Chimica Acta. Roč. 1192, FEB (2022), s. 1-8, č. článku 339333. ISSN 0003-2670. E-ISSN 1873-4324

Obor OECD: Analytical chemistry

Impakt faktor: 6.911, rok: 2021

Způsob publikování: Omezený přístup

[DOI: 10.1016/j.aca.2021.339333](https://doi.org/10.1016/j.aca.2021.339333)

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Duša, Filip - Moravcová, Dana - Šlais, Karel

Low-molecular-mass colored compounds for fine tracing of pH gradient on broad and narrow scale in isoelectric focusing.

Analytica Chimica Acta. Roč. 1221, AUG (2022), č. článku 340035. ISSN 0003-2670. E-ISSN 1873-4324

Obor OECD: Analytical chemistry

Impakt faktor: 6.911, rok: 2021

Způsob publikování: Omezený přístup

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Separation of biological agents by divergent-flow isoelectric focusing as a tool for their rapid identification by MALDI-TOF MS.

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Obor OECD: Analytical chemistry

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Dvořák, Miloš - Miró, M. - Kubáň, Pavel

Automated Sequential Injection-Capillary Electrophoresis for Dried Blood Spot Analysis: A Proof-of-Concept Study.

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Obor OECD: Analytical chemistry

Impakt faktor: 8.008, rok: 2021

Způsob publikování: Omezený přístup

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Fernandes de Oliveira, Aline - Svoboda, Milan - Benada, Oldřich - Kratzer, Jan

Ultratrace determination of arsenic by hydride generation atomic absorption spectrometry with preconcentration on gold nanoparticles.

Journal of Analytical Atomic Spectrometry. Roč. 37, č. 3 (2022), s. 620-631. ISSN 0267-9477. E-ISSN 1364-5544

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Impakt faktor: 4.351, rok: 2021

Způsob publikování: Omezený přístup

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Figuroa, Adrián García - Musil, Stanislav - Matoušek, Tomáš

Speciation analysis of tellurium in water samples by selective HG-ICP-MS/MS with TiCl₃ as pre-reducing agent.

Book of Abstracts: European Symposium on Atomic Spectrometry - Czech-Slovak Spectroscopic Conference 2022. Brno: Ioannes Marcus Marci Spectroscopic Society, 2022. s. 195-195. ISBN 978-80-88195-41-2.

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Obor OECD: Analytical chemistry

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Germanium in Lake Geneva (Switzerland/France) along the spring productivity period.

Applied Geochemistry. Roč. 143, AUG (2022), s. 1-12, č. článku 105352. ISSN 0883-2927.

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Obor OECD: Analytical chemistry

Impakt faktor: 3.841, rok: 2021

Způsob publikování: Open access

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Electrophoresis. Roč. 43 (2022), s. 661-668. ISSN 0173-0835. E-ISSN 1522-2683

Obor OECD: Analytical chemistry

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Improved capillary flow-cell design for absorbance detection in micro column liquid chromatography.

Book of Abstracts : 26th International Symposium on Separation Sciences. Ljubljana:

National Institute of Chemistry, 2022 - (Vovk, I.; Glavnik, V.; Bensa, M.). s. 86-86. ISBN 978-961-6104-78-4.

[International Symposium on Separation Sciences /26./ 28.06.2022-01.07.2022, Ljubljana]

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Obor OECD: Analytical chemistry

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Sensitive identification of milk protein allergens using on-line combination of transient isotachopheresis/micellar electrokinetic chromatography and capillary isoelectric focusing in fused silica capillary with roughened part.

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Capillary electrophoretic methods for classification of methicillin-resistant *Staphylococcus aureus* (MRSA) clones.

Analytica Chimica Acta. Roč. 12227, SEP (2022), s. 1-7, č. článku 340305. ISSN 0003-2670. E-ISSN 1873-4324

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Impakt faktor: 6.911, rok: 2021

Způsob publikování: Omezený přístup

[DOI: 10.1016/j.aca.2022.340305](https://doi.org/10.1016/j.aca.2022.340305)

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Current applications of capillary electrophoresis-mass spectrometry for the analysis of biologically important analytes in urine (2017 to mid-2021): A review.

Journal of Separation Science. Roč. 45, č. 1 (2022), s. 305-324. ISSN 1615-9306. E-ISSN 1615-9314

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Impakt faktor: 3.614, rok: 2021

Způsob publikování: Omezený přístup

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Liquid biopsy in cancer research – Development of a new 3D printed device for sample pretreatment.

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Perchlorate Solid-Contact Ion-Selective Electrode Based on Dodecabenzylbambus[6]uril.

Chemosensors. Roč. 10, č. 3 (2022), č. článku 115. E-ISSN 2227-9040

Obor OECD: Analytical chemistry

Impakt faktor: 4.229, rok: 2021

Způsob publikování: Open access

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Use of metal nanoparticles for preconcentration and analysis of biological thiols.

Electrophoresis. (2022), s. 1-23. ISSN 0173-0835. E-ISSN 1522-2683

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Způsob publikování: Omezený přístup

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Jeníková, Eva - Nováková, Eliška - Hraníček, J. - Musil, Stanislav

Ultra-sensitive speciation analysis of tellurium by manganese and iron assisted photochemical vapor generation coupled to ICP-MS/MS.

Analytica Chimica Acta. Roč. 1201, APR (2022), č. článku 339634. ISSN 0003-2670. E-ISSN 1873-4324

Obor OECD: Analytical chemistry

Impakt faktor: 6.911, rok: 2021

Způsob publikování: Omezený přístup

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Jeníková, Eva - Nováková, Eliška - Hraníček, J. - Musil, Stanislav

Citlivá speciační analýza telluru pomocí fotochemického generování těkavých specií s ICP-MS detekcí.

[Sensitive speciation analysis of tellurium by photochemical vapor generation with ICP-MS detection.]

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[Workshop Speciační analýza 2022. 13.06.2022-16.06.2022, Skalka u Ježova]

Obor OECD: Analytical chemistry

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Jeníková, Eva - Nováková, E. - Ruxová, H. - Musil, Stanislav - Hraníček, J.

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Monatshefte für Chemie. JUL (2022), s. 1-9. ISSN 0026-9247. E-ISSN 1434-4475

Obor OECD: Analytical chemistry

Impakt faktor: 1.613, rok: 2021

Způsob publikování: Omezený přístup

[DOI: 10.1007/s00706-022-02954-4](https://doi.org/10.1007/s00706-022-02954-4)

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Kodříková, Barbora

Atomizácia hydridotvorných prvkov v plazmových výbojoch s dielektrickou bariérou.

Diplomová práce.

[Atomization of hydride forming elements in dielectric barrier plasma discharges. Diploma Thesis.]

Ústav analytické chemie AV ČR, v. v. i. **Obhájeno:** Praha. 24.5.2022. - Praha: Univerzita Karlova, 2022. 64 s.

Obor OECD: Analytical chemistry

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Kratzer, Jan - Lacko, Michal - Dryahina, Kseniya - Matoušek, Tomáš - Španěl, Patrik - Dědina, Jiří

Atomization of As and Se volatile species in a dielectric barrier discharge atomizer after hydride generation: Fate of analyte studied by selected ion flow tube mass spectrometry.

Analytica Chimica Acta. Roč. 1190, JAN (2022), s. 1-8, č. článku 339256. ISSN 0003-2670.

E-ISSN 1873-4324

Obor OECD: Analytical chemistry

Impakt faktor: 6.911, rok: 2021

Způsob publikování: Omezený přístup

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Dielectric barrier discharge devices.

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Kratzer, Jan - Svoboda, Milan - Kodříková, Barbora - Kráľová, Zuzana - Vlčková, Nikol - Suchopár, Vít - Dědina, Jiří

Next generation of dielectric barrier discharge atomizers for ultratrace element analysis.

Book of Abstracts: European Symposium on Atomic Spectrometry - Czech-Slovak Spectroscopic Conference 2022. Brno: Ioannes Marcus Marci Spectroscopic Society, 2022. s. 88-88. ISBN 978-80-88195-41-2.

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Microfabricated Liquid Junction Capillary Electrophoresis–Mass Spectrometry Interface.

Capillary Electrophoresis–Mass Spectrometry : Methods and Protocols. New York: Humana New York, 2022 - (Neusüß, C.; Jooß, K.), s. 61-68. Methods in Molecular Biology, volume 2531. ISBN 978-1-0716-2492-0

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Cationic electrophoretic focusing on inverse electromigration dispersion profile with ESI-MS detection. New capillary electrophoretic method for high-sensitivity analysis of 2-hydroxy-s-triazines in waters.

Analytica Chimica Acta. Roč. 1195, FEB (2022), s. 1-9, č. článku 339477. ISSN 0003-2670.

E-ISSN 1873-4324

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Stav ke dni: 20. 9. 2022