

**Publikace vydané v roce 2020**

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**Albrecht, Michal - Mrkvičková, M. - Svoboda, Milan - Hraníček, J. - Voráč, J. - Dvořák, P. - Dědina, Jiří - Kratzer, Jan**

Atomization of lead hydride in a dielectric barrier discharge atomizer: Optimized for atomic absorption spectrometry and studied by laser induced fluorescence.

*Spectrochimica Acta Part B: Atomic Spectroscopy*. Roč. 166, APR (2020), č. článku 105819. ISSN 0584-8547

Obor OECD: Analytical chemistry

Impakt faktor: 3.086, rok: 2019

<http://hdl.handle.net/11104/0307378>

[DOI: 10.1016/j.sab.2020.105819](https://doi.org/10.1016/j.sab.2020.105819)

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**Bauerová, P. - Krajzingerová, T. - Těšický, M. - Velová, H. - Hraníček, J. - Musil, Stanislav - Svobodová, J. - Albrecht, Tomáš - Vinkler, M.**

Longitudinally monitored lifetime changes in blood heavy metal concentrations and their health effects in urban birds.

*Science of the Total Environment*. Roč. 723, JUN (2020), č. článku 138002. ISSN 0048-9697

Obor OECD: Analytical chemistry

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Proteomic analysis of the cardiac myocyte secretome reveals extracellular protective functions for the ER stress response.

*Journal of Molecular and Cellular Cardiology*. Roč. 143, JUN (2020), s. 132-144. ISSN 0022-2828

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**Bláhová, L. - Nováková, Z. - Večeřa, Zbyněk - Vrlíková, Lucie - Dočkal, Bohumil - Dumková, J. - Křúmal, Kamil - Mikuška, Pavel - Buchtová, Marcela - Hampl, A. - Hilscherová, K. - Bláha, L.**

The effects of nano-sized PbO on biomarkers of membrane disruption and DNA damage in a sub-chronic inhalation study on mice.

*Nanotoxicology*. Roč. 14, č. 2 (2020), s. 214-231. ISSN 1743-5390

Obor OECD: Analytical chemistry

Impakt faktor: 4.925, rok: 2019

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[DOI: 10.1080/17435390.2019.1685696](https://doi.org/10.1080/17435390.2019.1685696)

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Syntéza a charakterizace bimetalických nanočástic pro studium fosforylovaných biomolekul metodou povrchem zesílené Ramanovy spektrometrie. Bakalářská práce.

[Synthesis and characterization of bimetallic nanoparticles for investigation of phosphorylated biomolecules by surface-enhanced Raman spectrometry. Bachelor thesis.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Brno: Masarykova univerzita, Přírodovědecká fakulta. 15.7.2020. - Brno: Masarykova univerzita, Přírodovědecká fakulta, 2020. 47 s.

Obor OECD: Analytical chemistry

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**Bufková, Kateřina - Musil, Stanislav - Kratzer, Jan - Dvořák, P. - Mrkvíčková, M. - Voráč, J. - Dědina, Jiří**

Generation of tellurium hydride and its atomization in a dielectric barrier discharge for atomic absorption spectrometry.

*Spectrochimica Acta Part B: Atomic Spectroscopy*. Roč. 171, SEP (2020), č. článku 105947. ISSN 0584-8547

Impakt faktor: 3.086, rok: 2019

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<DOI: 10.1016/j.sab.2020.105947>

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Effects of different factors on concentration of functional components of Aronia and Saskatoon berries.

*Plant Foods for Human Nutrition*. Roč. 75, č. 1 (2020), s. 83-88. ISSN 0921-9668

Obor OECD: Analytical chemistry

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Assessment of volatile compounds with emphasis on volatile allergens in selected dried medicinal plants using solid phase microextraction coupled with gas chromatography–mass spectrometry.

*Chemical Papers*. Roč. 74, č. 5 (2020), s. 1679-1690. ISSN 2585-7290

Obor OECD: Analytical chemistry

Impakt faktor: 1.680, rok: 2019

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**Burhenn, S. - Kratzer, Jan - Franzke, J.**

Temporal evolution of tellurium emission lines in a capillary dielectric barrier discharge after hydride generation.

*Spectrochimica Acta Part B: Atomic Spectroscopy*. Roč. 171 (2020), s. 1-6, č. článku 105936. ISSN 0584-8547

Obor OECD: Analytical chemistry

Impakt faktor: 3.086, rok: 2019

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**Coufalík, Pavel - Uher, A. - Zvěřina, O. - Komárek, J.**

Determination of cadmium in lichens by solid sampling graphite furnace atomic absorption spectrometry (SS-GF-AAS).

*Environmental Monitoring and Assessment.* Roč. 192, č. 4 (2020), č. článku 222. ISSN 0167-6369

Obor OECD: Analytical chemistry

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**Čapka, Lukáš - Mikuška, Pavel - Křúmal, Kamil**

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*Atmospheric Environment.* Roč. 222 (2020), č. článku 117178. ISSN 1352-2310

Obor OECD: Meteorology and atmospheric sciences

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**Dosedělová, V. - Itterheimová, P. - Kubáň, Petr**

Analysis of bile acids in human biological samples by microcolumn separation techniques: A review.

*Electrophoresis.* JUL (2020), s. 1-18. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 3.081, rok: 2019

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[DOI: 10.1002/elps.202000139](https://doi.org/10.1002/elps.202000139)

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**Dumková, J. - Smutná, Tereza - Vrlíková, Lucie - Kotasová, H. - Dočekal, Bohumil - Čapka, Lukáš - Tvrdoňová, M. - Jakešová, Veronika - Pelková, V. - Křúmal, Kamil - Coufalík, Pavel - Mikuška, Pavel - Večeřa, Zbyněk - Vaculovič, T. - Husáková, Z. - Kanický, V. - Hampl, A. - Buchtová, Marcela**

Variability in the Clearance of Lead Oxide Nanoparticles Is Associated with Alteration of Specific Membrane Transporters.

*ACS Nano.* Roč. 14, č. 3 (2020), s. 3096-3120. ISSN 1936-0851

Obor OECD: Developmental biology

Impakt faktor: 14.588, rok: 2019

[DOI: 10.1021/acsnano.9b08143](https://doi.org/10.1021/acsnano.9b08143)

<http://hdl.handle.net/11104/0308550>

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Analysis of major bile acids in saliva samples of patients with Barrett's esophagus using high-performance liquid chromatography-electrospray ionization-mass spectrometry.

*Journal of Chromatography A.* Roč. 1625 (2020), č. článku 461278. ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 4.049, rok: 2019

<http://hdl.handle.net/11104/0310416>

[DOI: 10.1016/j.chroma.2020.461278](https://doi.org/10.1016/j.chroma.2020.461278)

<http://hdl.handle.net/11104/0310416>

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DNA purification and concentration by isotachophoresis in nonwoven fabric strip.

*Analytica Chimica Acta*. Roč. 1117, JUN (2020), s. 41-47. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.977, rok: 2019

<http://hdl.handle.net/11104/0308624>[DOI: 10.1016/j.aca.2020.04.029](#)<http://hdl.handle.net/11104/0308624>**Dvořák, Miloš - Ryšavá, Lenka - Kubáň, Pavel**

Capillary Electrophoresis with Capacitively Coupled Contactless Conductivity Detection for Quantitative Analysis of Dried Blood Spots with Unknown Blood Volume.

*Analytical Chemistry*. Roč. 92, č. 1 (2020), s. 1557-1564. ISSN 0003-2700

Obor OECD: Analytical chemistry

Impakt faktor: 6.785, rok: 2019

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Surface design of photon-upconversion nanoparticles for high-contrast immunocytochemistry.

*Nanoscale*. Roč. 12, č. 15 (2020), s. 8303-8313. ISSN 2040-3364

Obor OECD: Analytical chemistry

Impakt faktor: 6.895, rok: 2019

<http://hdl.handle.net/11104/0308784>[DOI: 10.1039/c9nr10568a](#)<http://hdl.handle.net/11104/0308784>**Fernandes de Oliveira, Aline - Svoboda, Milan - Musil, Stanislav - Machado, Ignacio -****Vaňek, Dominik - Matoušek, Tomáš - Dědina, Jiří - Kratzer, Jan**

Selenium preconcentration in a gold "amalgamator" after hydride generation for atomic spectrometry.

*Journal of Analytical Atomic Spectrometry*. Roč. 35, č. 10 (2020), s. 2132-2141. ISSN 0267-9477

Obor OECD: Analytical chemistry

Impakt faktor: 3.498, rok: 2019

<http://hdl.handle.net/11104/0311560>[DOI: 10.1039/d0ja00227e](#)<http://hdl.handle.net/11104/0311560>**Gebauer, Petr - Foret, František**

Československá izotachoforetická škola.

[Czechoslovak Isotachophoretic School.]

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Obor OECD: Analytical chemistry

Impakt faktor: 0.390, rok: 2019

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*Electrophoresis*. Roč. 41, 7-8 (2020), s. 471-480. ISSN 0173-0835

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Electromembrane extraction of highly polar bases from biological samples - Deeper insight into bis(2-ethylhexyl) phosphate as ionic carrier.  
*Analytica Chimica Acta*. Roč. 1115, JUN (2020), s. 23-32. ISSN 0003-2670  
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Impakt faktor: 5.977, rok: 2019

[DOI: 10.1016/j.aca.2020.04.027](https://doi.org/10.1016/j.aca.2020.04.027)  
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**Hauser, P.C. - Kubáň, Pavel**

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Obor OECD: Analytical chemistry  
Impakt faktor: 4.049, rok: 2019  
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Photon-upconversion scanner for multiplexed imaging.  
*XX. Workshop of Biophysical Chemists and Electrochemists*. Brno: Masarykova univerzita, 2020 - (Trnková, L.), s. 16-17. ISBN 978-80-210-9655-4.  
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**Hlaváček, Antonín - Křivánková, Jana - Pizúrová, Naděžda - Václavek, Tomáš - Foret, František**

Photon-upconversion barcode for monitoring an enzymatic reaction with a fluorescence reporter in droplet microfluidics.  
*Analyst*. (2020), s. 1-6. ISSN 0003-2654  
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Impakt faktor: 3.978, rok: 2019

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**Horká, Marie - Šalplachta, Jiří - Karásek, Pavel - Růžička, F. - Roth, Michal**

Online Concentration of Bacteria from Tens of Microliter Sample Volumes in Roughened Fused Silica Capillary with Subsequent Analysis by Capillary Electrophoresis and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry.  
*ACS Infectious Diseases*. Roč. 6, č. 3 (2020), s. 355-365. ISSN 2373-8227  
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Impakt faktor: 4.614, rok: 2019  
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Nano-etched fused-silica capillary used for on-line preconcentration and electrophoretic separation of bacteriophages from large blood sample volumes with off-line MALDI-TOF mass spectrometry identification.

*Microchimica Acta*. Roč. 187, č. 3 (2020), č. článku 177. ISSN 0026-3672

Obor OECD: Analytical chemistry

Impakt faktor: 6.232, rok: 2019

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Obor OECD: Analytical chemistry

Impakt faktor: 4.614, rok: 2019

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Rapid Isolation, Propagation, and Online Analysis of a Small Number of Therapeutic Staphylococcal Bacteriophages from a Complex Matrix.

*ACS Infectious Diseases*. Roč. 6, č. 10 (2020), s. 2745-2755. ISSN 2373-8227

Obor OECD: Analytical chemistry

Impakt faktor: 4.614, rok: 2019

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Practical sample pretreatment techniques coupled with capillary electrophoresis for real samples in complex matrices.

*Trac-Trends in Analytical Chemistry*. Roč. 122, JAN (2020), č. článku 115702. ISSN 0165-9936

Obor OECD: Analytical chemistry

Impakt faktor: 9.801, rok: 2019

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**Jonas, Vladimír - Týčová, Anna - Přikryl, Jan - Kotzianová, A. - Velebný, V. - Foret, František**

Deposition of dried colloidal suspension via nanoelectrospray.

*XX. Workshop of Biophysical Chemists and Electrochemists*. Brno: Masarykova univerzita, 2020 - (Trnková, L.), s. 31-32. ISBN 978-80-210-9655-4.

[Workshop of Biophysical Chemists and Electrochemists /20/. Brno (CZ), 17.09.2020-18.09.2020]

Obor OECD: Analytical chemistry

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Development of a 3D bone model for biomedical research.

*Organoids: Modelling Organ Development and Disease in 3D Culture.* Heidelberg: EMBL Heidelberg, 2020. s. 133-133.

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Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0312778>

**Kodríková, Barbora**

Generovanie prchavej špécie kadmia v prítomnosti solí titanu ako aditív s detekciou atomovou absorpciou spektrometriou. Bakalářská práce.

[Generation of volatile cadmium species in presence of titanium salts as additives with detection by atomic absorption spectrometry. Bachelor thesis.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Univerzita Karlova, Přírodovědecká fakulta.

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Obor OECD: Analytical chemistry

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Estimation of cadmium load from soybeans and soy-based foods for vegetarians.

*Environmental Monitoring and Assessment.* Roč. 192, č. 2 (2020), č. článku 89. ISSN 0167-6369

Obor OECD: Analytical chemistry

Impakt faktor: 1.903, rok: 2019

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[DOI: 10.1007/s10661-019-8034-7](https://doi.org/10.1007/s10661-019-8034-7)

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**Krafft, B. - Týčová, Anna - Urban, R. D. - Dusny, Ch. - Belder, D.**

Microfluidic device for concentration and SERS-based detection of bacteria in drinking water.

*Electrophoresis.* (2020), s. 1-9. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 3.081, rok: 2019

[DOI: 10.1002/elps.202000048](https://doi.org/10.1002/elps.202000048)

<http://hdl.handle.net/11104/0310907>

**Kratochvílová, Adéla - Veselá, Barbora - Ledvina, Vojtěch - Švandová, Eva - Klepárník, Karel - Dadáková, Kateřina - Beneš, P. - Matalová, Eva**

Osteogenic impact of pro-apoptotic caspase inhibitors in MC3T3-E1 cells.

*Scientific Reports.* Roč. 10, č. 1 (2020), č. článku 7489. ISSN 2045-2322

Obor OECD: Developmental biology

Impakt faktor: 3.998, rok: 2019

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**Křenková, Jana - Lišková, Marcela - Čmelík, Richard - Vigh, G. - Foret, František**

Multi-cationic aminopyrene-based labeling tags for oligosaccharide analysis by capillary electrophoresis-mass spectrometry.

*Analytica Chimica Acta.* Roč. 1095, JAN (2020), s. 226-232. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.977, rok: 2019

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[DOI: 10.1016/j.aca.2019.10.032](#)

<http://hdl.handle.net/11104/0300316>

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Comparison of oligosaccharide labeling employing reductive amination and hydrazone formation chemistries.

*Electrophoresis*. Roč. 41 (2020), s. 684-690. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 3.081, rok: 2019

<http://hdl.handle.net/11104/0306941>

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**Křivánková, Ludmila**

Brněnská elektroforetická škola.

[Brno Electrophoretic School.]

*Chemické listy*. Roč. 114, Č. 1 (2020), s. 10-16. ISSN 0009-2770

Obor OECD: Analytical chemistry

Impakt faktor: 0.390, rok: 2019

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**Krůmal, Kamil - Mikuška, Pavel**

Mass concentrations and lung cancer risk assessment of PAHs bound to PM1 aerosol in six industrial, urban and rural areas in the Czech Republic, Central Europe.

*Atmospheric Pollution Research*. Roč. 11, č. 2 (2020), s. 401-408. ISSN 1309-1042

Obor OECD: Analytical chemistry

Impakt faktor: 3.527, rok: 2019

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**Kubáň, Pavel - Dvořák, Miloš - Ryšavá, Lenka - Miková, Blanka**

Analysis of dried blood spots by direct coupling of liquid phase microextraction to capillary electrophoresis.

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Obor OECD: Analytical chemistry

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Obor OECD: Analytical chemistry

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