

**Publikace vydané v roce 2019**

Stav ke dni: 6. 12. 2019

**Barboříková, H. - Mikuška, Pavel - Hegrová, J. - Pokorná, Petra - Krajčovič, J.**

Metals in atmospheric particulate matter.

*Sborník XX. výroční konference České aerosolové společnosti*, Praha: Česká aerosolová společnost, 2019 - (Vlčková, L.), s. 21-22. ISBN 978-80-270-6416-8.

[Výroční konference České aerosolové společnosti /20./, Velké Bílovice (CZ), 30.10.2019-01.11.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0301076>
**Bi, R. - Sun, Q. P. - Wu, L. - Musil, Stanislav - Kratzer, Jan - Chen, W. Z. - Li, P. - Liu, W. H.**

Capability of edible macroalgae farming for coastal water cleaning.

*9th International Conference on Marine Pollution and Ecotoxicology. Programme and Abstracts*. Hong Kong: The University of Hong Kong, 2019. s. 137-137. ISBN N.

[International Conference on Marine Pollution and Ecotoxicology /9./, 09.06.2019-14.06.2019, Hong Kong]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297357>
**Brtko, J. - Toporová, L. - Podoba, J. - Hunáková, L. - Strouhalová, Dana - Bobálová, Janette - Macejová, D.**

The road to nuclear retinoid and retinoid receptors and their cognate ligands: Insight into physiology and therapy of selected malignant diseases.

*95. Fyziologické dny. Sborník*. Praha: Univerzita Karlova : 3. Lékařská fakulta, 2019. s. 6-6.

[Fyziologické dny /95./, 05.02.2019-07.02.2019, Praha]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0293227>
**Brtko, J. - Toporová, L. - Mosná, B. - Hunáková, L. - Horváthová, E. - Majerová, K. - Strouhalová, Dana - Bobálová, Janette - Bobál, P. - Otevřel, J. - Macejová, D.**

Triorganocínitité zlučiny – vazobné ligandy nukleárných retinoidních X receptorů a jejich působení na organismus jako endokrinné disruptory.

[Triorganotin compounds - binding ligands of nuclear retinoid X receptors and their action on the body as endocrine disruptors.]

*Endocrine Regulations*. Roč. 53, Supplement 1 (2019), s. 21-21. ISSN 1210-0668.

[Endokrinné disruptory. Bilaterálne vedecké sympóziu /3./, 29.05.2019-29.05.2019, Bratislava]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0296774>
**Brtko, J. - Toporová, L. - Mosná, B. - Hunáková, L. - Horváthová, E. - Strouhalová, Dana - Bobálová, Janette - Bobál, P. - Otevřel, J. - Macejová, D.**

Nuclear retinoid and retinoid X receptors and their cognate ligands: Insight into toxicology.

*Interdisciplinary Toxicology*. Roč. 12, Suppl. 1 (2019), s. 24-25. ISSN 1337-6853.

[Toxcon 2019. Interdisciplinary Toxicological Conference /24./, 26.06.2019-28.06.2019, Vyhne]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297508>
**Brtko, J. - Strouhalová, Dana - Toporová, L. - Laštovičková, Markéta - Macejová, D. - Bobálová, Janette**

Combined effect of triorganotin compounds and all-trans retinoic acid on expression of selected proteins associated with tumour progression in human breast cancer triple negative MDA-MB-231 cells: Proteomic approach.

*RICT 2019. Book of Abstracts. Société de Chimie Thérapeutique, 2019. s. 59-59.*

[RICT 2019, Interfacing Chemical Biology and Drug Discovery, International Conference on Medicinal Chemistry /55./, 03.07.2019-05.07.2019, Nantes]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297513>

**Bufková, K.**

Generování hydridu telluru pro atomovou absorpční spektrometrii. Diplomová práce.

[Hydride generation of tellurium for atomic absorption spectrometry. Diploma thesis.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha: Univerzita Karlova, Přírodovědecká fakulta. 27.5.2019. - Praha: Univerzita Karlova, Přírodovědecká fakulta, 2019. 82 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300066>

**Burdějová, Lenka - Duša, Filip - Moravcová, Dana**

Effect of defatting and solvents selection on the extraction of allergen proteins from almonds.

*HPLC 2019. Final Program. Milan: University of Milano-Bicocca, 2019. s. 1-2.*

[HPLC 2019. International Symposium on High-Performance Liquid Phase Separation and Related Techniques /48./, 16.06.2019-20.06.2019, Milan]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0298731>

**Burdějová, Lenka - Moravcová, Dana - Strouhalová, Dana - Karásek, Pavel - Roth, Michal - Kudláčková, Barbora**

Optimization of pressurized hot water extraction for isolation of allergen proteins from almonds.

*CECE 2019. Gdańsk: University of Gdańsk, 2019. s. 12-12.*

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./, 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299876>

**Burhenn, S. - Kratzer, Jan - Klute, F. D. - Dědina, Jiří - Franzke, J.**

Atomization of arsenic hydride in a planar dielectric barrier discharge: Behavior of As atoms studied by temporally and spatially resolved optical emission spectrometry.

*Spectrochimica Acta Part B: Atomic Spectroscopy. Roč. 152, FEB (2019), s. 68-73. ISSN 0584-8547*

Obor OECD: Analytical chemistry

Impakt faktor: 3.101, rok: 2018

[DOI: 10.1016/j.sab.2018.12.006](https://doi.org/10.1016/j.sab.2018.12.006)

<http://hdl.handle.net/11104/0291161>

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

Influences of voltage shape and discharge gas on the temporally and spatially resolved emission characteristics of tin in a planar dielectric barrier discharge.

*Spectrochimica Acta Part B: Atomic Spectroscopy. Roč. 161 (2019), s. 1-7, č. článku 105695. ISSN 0584-8547*

Obor OECD: Analytical chemistry

Impakt faktor: 3.101, rok: 2018

[DOI: 10.1016/j.sab.2019.105695](https://doi.org/10.1016/j.sab.2019.105695)

<http://hdl.handle.net/11104/0300171>

**Carrasco-Correa, E. J. - Kubáň, Pavel - Cocovi-Solberg, D. J. - Miró, M.**

Fully Automated Electric-Field-Driven Liquid Phase Microextraction System with Renewable Organic Membrane As a Front End to High Performance Liquid Chromatography.

*Analytical Chemistry. Roč. 91, č. 16 (2019), s. 10808-10815. ISSN 0003-2700*

Obor OECD: Analytical chemistry

Impakt faktor: 6.350, rok: 2018

DOI: [10.1021/acs.analchem.9b02453](https://doi.org/10.1021/acs.analchem.9b02453)  
<http://hdl.handle.net/11104/0298756>

**Coufalík, Pavel - Matoušek, Tomáš - Křůmal, Kamil - Vojtíšek-Lom, M. - Beránek, V. - Mikuška, Pavel**

Content of metals in emissions from gasoline, diesel, and alternative mixed biofuels.  
*Environmental Science and Pollution Research*. AUG (2019), s. 1-8. ISSN 0944-1344  
 Obor OECD: Analytical chemistry  
 Impakt faktor: 2.914, rok: 2018

DOI: [10.1007/s11356-019-06144-4](https://doi.org/10.1007/s11356-019-06144-4)  
<http://hdl.handle.net/11104/0298510>

**Coufalík, Pavel**

Stopová analýza kovů.  
 [Trace Metals Analysis.]  
 [e-book]. - Brno: 55. s., 2019. C  
 Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0299221>

**Čapka, Lukáš - Mikuška, Pavel**

On-line determination of dicarboxylic acids in atmospheric aerosols using continuous ultrafine aerosol sampler.  
*ICCE 2019. Conference Proceedings*. EuChemS, 2019, s. 56-58.  
 [International Conference on Chemistry and the Environment /17./. Thessaloniki (GR), 16.06.2019-20.06.2019]  
 Obor OECD: Analytical chemistry  
<http://icce2019.org/content/ICCE-2019-Conference-Proceedings.pdf>  
<http://hdl.handle.net/11104/0297317>

**Čapka, Lukáš - Mikuška, Pavel**

On-line simultaneous determination of ammonia/ammonium in ambient air.  
*Sborník XX. výroční konference České aerosolové společnosti*. Praha: Česká aerosolová společnost, 2019 - (Vlčková, L.), s. 25-26. ISBN 978-80-270-6416-8.  
 [Výroční konference České aerosolové společnosti /20./. Velké Bílovice (CZ), 30.10.2019-01.11.2019]  
 Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0300928>

**Čmelík, Richard - Křenková, Jana - Foret, František**

Synthetic approach to novel type of fluorescent tag for glycan analysis.  
*30th MassSpec-Forum Vienna. Book of Abstracts*. Vienna: University of Vienna, 2019. Poster N\*4-Poster N\*4, N 4.  
 [MassSpec-Forum Vienna /30./. 19.02.2019-20.02.2019, Vienna]  
 Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0293818>

**Čmelík, Richard - Křenková, Jana - Lišková, Marcela - Foret, František**

Multicationic labels for glycan analysis – synthesis and application.  
*HPLC 2019. Final Program*. Milan: University of Milano-Bicocca, 2019. Poster P 272.  
 [HPLC 2019. International Symposium on High-Performance Liquid Phase Separation and Related Techniques /48./. 16.06.2019-20.06.2019, Milan]  
 Obor OECD: Analytical chemistry  
[www.hplc2019-milan.org/pages/programmeAtGlance/index.php](http://www.hplc2019-milan.org/pages/programmeAtGlance/index.php)  
<http://hdl.handle.net/11104/0297189>

**Čmelík, Richard - Křenková, Jana - Foret, František**

Synthesis of new fluorescent labels to improve glycan analysis.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 11-11.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./, 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299867>

**Dědina, Jiří - Kratzer, Jan - Štádlarová, Barbora - Musil, Stanislav - Svoboda, Milan - Obrusník, I. - Voráč, J. - Mrkvičková, M. - Dvořák, P.**

Two-photon absorption laser-induced fluorescence and "conventional" laser-induced fluorescence as tools to understand processes in the miniature diffusion flame hydride atomizer.

*Colloquium Spectroscopicum Internationale XLI & I Latin American Meeting on LIBS. Book of Abstracts*. 2019. KL.At.3.

[Colloquium Spectroscopicum Internationale /XLI./ & Latin American Meeting on LIBS /I./ CSI XLI. 09.06.2019-14.06.2019, Mexico City]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297187>

**Dědina, Jiří - Kratzer, Jan - Štádlarová, Barbora - Musil, Stanislav - Svoboda, Milan - Obrusník, A. - Voráč, J. - Mrkvičková, M. - Dvořák, P.**

Laser-induced atomic fluorescence for the development of hydride atomizers and for ultratrace determination of hydride forming elements.

*Scientific Program. 15th Rio Symposium on Atomic Spectrometry*. 2019. s. 46-46.

[Rio Symposium on Atomic Spectrometry /15./, 06.10.2019-11.10.2019, Mendoza]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300573>

**Dočekal, Bohumil**

Problematika stopové a ultrastopové prvkové analýzy.

Brno: ChromSpec "Škola elementové stopové analýzy", 21.5.2019-23.5.2019, 2019. P, 46 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0296679>

**Dočekal, Bohumil**

contrAA - Nástroj ve spektroskopických studiích pro praxi a výzkum.

Brno: ChromSpec "Škola elementové stopové analýzy", 21.5.2019-23.5.2019, 2019. P, 41 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0296683>

**Dočekal, Bohumil**

Přímá analýza pevných vzorků atomovou absorpční spektrometrií s elektrotermickou atomizací.

[Direct analysis of solid samples by atomic absorption spectrometry with electrothermal atomization.]

*Atomová absorpční spektrometrie. Kurz AAS II*. Praha: Spektroskopická společnost Jana Marka Marci, 2019 - (Otruba, V.), s. 89-96. ISBN 978-80-88195-17-7

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302231>

**Drouin, N. - Kubáň, Pavel - Rudaz, S. - Pedersen-Bjergaard, S. - Schappler, J.**

Electromembrane extraction: Overview of the last decade.

*Trac-Trends in Analytical Chemistry*. Roč. 113, APR (2019), s. 357-363. ISSN 0165-9936

Obor OECD: Analytical chemistry

Impakt faktor: 8.428, rok: 2018

[DOI: 10.1016/j.trac.2018.10.024](https://doi.org/10.1016/j.trac.2018.10.024)

<http://hdl.handle.net/11104/0295445>

**Duša, Filip - Chen, W. - Witos, J. - Wiedmer, S. K.**

Calcium dependent reversible aggregation of Escherichia coli biomimicking vesicles enables formation of supported vesicle layers on silicon dioxide.

*Frontiers in Materials*. Roč. 6, MAR (2019), č. článku 23. ISSN 2296-8016

Obor OECD: Analytical chemistry

Impakt faktor: 2.689, rok: 2018

[DOI: 10.3389/fmats.2019.00023](https://doi.org/10.3389/fmats.2019.00023)

<http://hdl.handle.net/11104/0294515>

**Duša, Filip - Moravcová, Dana - Šlais, Karel**

Low-molecular-mass nitrophenol-based compounds suitable for the effective tracking of pH gradient in isoelectric focusing.

*Analytica Chimica Acta*. Roč. 1076, OCT (2019), s. 144-153. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.256, rok: 2018

[DOI: 10.1016/j.aca.2019.05.010](https://doi.org/10.1016/j.aca.2019.05.010)

<http://hdl.handle.net/11104/0297353>

**Duša, Filip - Chen, W. - Witos, J. - Ruukonen, S. K. - Wiedmer, S. K. - Rosa, J.**

NPS allows the study of lipid phase transition temperature.

2019

Obor OECD: Analytical chemistry

<https://www.insplorion.com/app/uploads/Insplorion-App-Note-33-NPS-allows-the-study-of-lipid-phase-transitions.pdf>

<http://hdl.handle.net/11104/0297359>

**Duša, Filip - Moravcová, Dana - Šlais, Karel**

Free flow isotachopheresis DNA purification in channel from disposable non-woven fabric bed.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 44-44.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./. 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299917>

**Duša, Filip - Chen, W. - Witos, J. - Rantamäki, A. H. - King, A. W. T. - Sklavounos, E. - Roth, Michal - Wiedmer, S. K.**

Immobilization of natural lipid biomembranes and their interactions with choline carboxylates. A nanoplasmonic sensing study.

*Biochimica Et Biophysica Acta-Biomembranes*. (2019), č. článku 183115. ISSN 0005-2736

Obor OECD: Analytical chemistry

Impakt faktor: 3.790, rok: 2018

[DOI: 10.1016/j.bbamem.2019.183115](https://doi.org/10.1016/j.bbamem.2019.183115)

<http://hdl.handle.net/11104/0301078>

**Dvořák, Miloš - Kubáň, Pavel**

In-line coupling of supported liquid membrane extraction across nanofibrous membrane to capillary electrophoresis for analysis of basic drugs from undiluted body fluids.

*Electrophoresis*. Roč. 40, 18-19 (2019), s. 2398-2406. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 2.754, rok: 2018

[DOI: 10.1002/elps.201800487](https://doi.org/10.1002/elps.201800487)

<http://hdl.handle.net/11104/0299102>

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

A simple and efficient procedure for capillary blood spiking with basic and acidic drugs for subsequent dried blood spot analysis.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 25-25.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./. 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299879>

**Dvořák, P. - Talába, M. - Kratzer, Jan - Dědina, Jiří**

Radical theory of hydride atomization confirmed after four decades - determination of H radicals in a quartz hydride atomizer by two-photon absorption laser-induced fluorescence.

*Chemical Science*. Roč. 10, č. 12 (2019), s. 3643-3648. ISSN 2041-6520

Obor OECD: Analytical chemistry

Impakt faktor: 9.556, rok: 2018

DOI: [10.1039/c8sc05655b](https://doi.org/10.1039/c8sc05655b)

<http://hdl.handle.net/11104/0293921>

**Dvořák, P. - Obrusník, A. - Talába, M. - Mrkvičková, M. - Kratzer, Jan - Procházka, V. - Dědina, Jiří**

Fluorescence measurements of atomic species in discharges and flames.

*3rd European Conference on Plasma Diagnostics. Book of Abstracts*. 2019. Contribution: I3.4.

[European Conference on Plasma Diagnostics /3./. 06.05.2019-09.05.2019, Lisbon]

Obor OECD: Analytical chemistry

<https://www.ipfn.tecnico.ulisboa.pt/ECPD2019/>

<http://hdl.handle.net/11104/0297141>

**Fernandes de Oliveira, Aline - Machado, I. - Vaněk, D. - Svoboda, Milan - Musil, Stanislav - Dědina, Jiří - Kratzer, Jan**

In atomizer trapping of selenium hydride in gold modified quartz tubes.

*Scientific Program. 15th Rio Symposium on Atomic Spectrometry*. 2019. s. 121-121.

[Rio Symposium on Atomic Spectrometry /15./. 06.10.2019-11.10.2019, Mendoza]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302636>

**Foret, František - Klepárník, Karel - Minárik, M.**

Nucleic Acids | Chromatographic and Electrophoretic Methods.

*Encyclopedia of Analytical Science*. Vol. Third Edition. 3rd ed. Elsevier Ltd., 2019 - (Worsfold, P.; Townshend, A.; Poole, C.; Miró, M.), s. 1-9. vol. 8. ISBN 9780081019832

Obor OECD: Analytical chemistry

DOI: [10.1016/B978-0-12-409547-2.14225-8](https://doi.org/10.1016/B978-0-12-409547-2.14225-8)

<http://hdl.handle.net/11104/0295517>

**Foret, František - Datinská, Vladimíra - Voráčová, Ivona - Novotný, Jakub - Gheibi, P. - Berka, J. - Astier, Y.**

Macrofluidic device for preparative concentration based on electrophoresis.

*Analytical Chemistry*. Roč. 91, č. 11 (2019), s. 7047-7053. ISSN 0003-2700

Obor OECD: Analytical chemistry

Impakt faktor: 6.350, rok: 2018

DOI: [10.1021/acs.analchem.8b05860](https://doi.org/10.1021/acs.analchem.8b05860)

<http://hdl.handle.net/11104/0296162>

**Foret, František - Datinská, Vladimíra - Voráčová, Ivona - Novotný, Jakub - Gheibi, P. - Berka, J. - Astier, Y.**

Instrumentation and Applications of Electrophoresis.

*ITP 2019. Book of Abstracts.* Francie: University Paul Sabatier, 2019. s. 17-17.

[ITP 2019. International Symposium on Electro-separation and Liquid Phase-Separation Techniques /26./, 01.09.2019-04.09.2019, Toulouse]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299468>

**Foret, František - Datinská, Vladimíra - Voráčová, Ivona - Novotný, Jakub - Gheibi, P. - Berka, J. - Astier, Y.**

Electrophoresis – new way for large sample volume concentration and separation.

*CECE 2019.* Gdańsk: University of Gdańsk, 2019. s. 5-5.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./, 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299860>

**García-Figueroa, A. - Filella, M. - Matoušek, Tomáš**

Ultratrace analysis of germanium species in natural waters by cryotrapping with ICP-MS and ICP-MS/MS detection.

*Book of Abstracts. European Winter Conference on Plasma Spectrochemistry.* 2019. s. 420-420.

[European Winter Conference on Plasma Spectrochemistry. 03.02.2019-08.02.2019, Pau]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0293648>

**García-Figueroa, A. - Filella, M. - Matoušek, Tomáš**

Measuring ultratrace concentrations of germanium species in natural water reference materials by cryotrapping with ICP-MS and ICP-MS/MS detection.

*COST ACTION TD 1407 Final Meeting. Book of Abstracts.* COST, 2019. s. 53-53.

[COST ACTION TD 1407 Final Meeting : Technology Critical Elements – Sources, Chemistry and Toxicology. 02.04.2019-03.04.2019, Zagreb]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0295699>

**Hlaváček, Antonín - Mickert, M. J. - Soukka, T. - Lahtinen, S. - Tallgren, T. - Pizúrová, Naděžda - Król, A. - Gorris, H. H.**

Large-scale purification of photon-upconversion nanoparticles by gel electrophoresis for analogue and digital bioassays.

*Analytical Chemistry.* Roč. 91, č. 2 (2019), s. 1241-1246. ISSN 0003-2700

Obor OECD: Analytical chemistry

Impakt faktor: 6.350, rok: 2018

[DOI: 10.1021/acs.analchem.8b04488](https://doi.org/10.1021/acs.analchem.8b04488)

<http://hdl.handle.net/11104/0296431>

**Hlaváček, Antonín - Křivánková, Jana - Příklad, Jan - Foret, František**

Photon-Upconversion Barcoding with Multiple Barcode Channels: Application for Droplet Microfluidics.

*Analytical Chemistry.* Roč. 91, č. 20 (2019), s. 12630-12635. ISSN 0003-2700

Obor OECD: Analytical chemistry

Impakt faktor: 6.350, rok: 2018

[DOI: 10.1021/acs.analchem.9b0311](https://doi.org/10.1021/acs.analchem.9b0311)

<http://hdl.handle.net/11104/0300289>

**Hlaváček, Antonín**

Photon-upconversion luminescence nanoparticles and droplet microfluidics.

*Upconversion Immunoassays for the Diagnosis of Bee Diseases. Workshop.* CEITEC Masaryk University, 2019.



[Upconversion Immunoassays for the Diagnosis of Bee Diseases. Workshop. 11.09.2019-12.09.2019, Brno]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0301786>

**Hlaváček, Antonín - Křivánková, Jana - Foret, František**

Detection of photonupconversion luminescence from microdroplets in microfluidic chips.

*10th International Conference Analytical Cytometry*. Praha: Česká společnost pro analytickou cytometrii, z. s., 2019. s. 1-1.

[International Conference Analytical Cytometry /10./. 21.09.2019-24.09.2019, Seč-Ústupy]

Obor OECD: Analytical chemistry

<https://conference.csac.cz/program/abstrakta>

<http://hdl.handle.net/11104/0301790>

**Hlaváček, Antonín - Křivánková, Jana - Foret, František**

Photon-upconversion barcode for droplet microfluidics.

*NanoBioTech-Montreux. Scientific Program & Proceedings*. Lausanne: The NanoBiotech Association, 2019, s. 84-85.

[NanoBioTech-Montreux 2019. The Annual European Conference on Micro & Nanoscale Technologies for the Life Sciences /23./. Montreux (CH), 18.11.2019-20.11.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302061>

**Holáň, Vladimír - Javorková, Eliška - Vrbová, Kristýna - Večeřa, Zbyněk - Mikuška, Pavel - Coufalík, Pavel - Kulich, P. - Skoupý, Radim - Machala, M. - Zajícová, Alena**

A murine model of the effects of inhaled CuO nanoparticles on cells of innate and adaptive immunity - a kinetic study of a continuous three-month exposure.

*Nanotoxicology*. Roč. 13, č. 7 (2019), s. 952-963. ISSN 1743-5390

Impakt faktor: 5.955, rok: 2018

[DOI: 10.1080/17435390.2019.1602679](https://doi.org/10.1080/17435390.2019.1602679)

<http://hdl.handle.net/11104/0299243>

**Horká, Marie - Šalplachta, Jiří - Růžička, F. - Šlais, Karel**

Preparative and capillary isoelectric focusing for detection and identification of *Aspergillus* conidia in complex sample matrices.

*Journal of Separation Science*. Roč. 41, č. 22 (2019), s. 4203-4211. ISSN 1615-9306

Obor OECD: Analytical chemistry

Impakt faktor: 2.516, rok: 2018

[DOI: 10.1002/jssc.201800547](https://doi.org/10.1002/jssc.201800547)

<http://hdl.handle.net/11104/0289577>

**Horká, Marie - Šalplachta, Jiří - Růžička, F. - Šlais, Karel**

Utilization of Red Nonionogenic Tenside Labeling, Isoelectric Focusing, and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry in the Identification of Uropathogens in the Presence of a High Level of Albumin.

*ACS Infectious Diseases*. Roč. 5, č. 8 (2019), s. 1348-1356. ISSN 2373-8227

Obor OECD: Analytical chemistry

Impakt faktor: 4.911, rok: 2018

[DOI: 10.1021/acsinfecdis.9b00045](https://doi.org/10.1021/acsinfecdis.9b00045)

<http://hdl.handle.net/11104/0298898>

**Juhászová, Lucie - Burhenn, S. - Sagapova, Linda - Franzke, J. - Dědina, Jiří - Kratzer, Jan**

Hydride generation atomic absorption spectrometry with a dielectric barrier discharge atomizer: Method optimization and evaluation of analytical performance for tin.



*Spectrochimica Acta Part B: Atomic Spectroscopy*. Roč. 158, AUG (2019), s. 1-7, č. článku 105630.  
ISSN 0584-8547  
Obor OECD: Analytical chemistry  
Impakt faktor: 3.101, rok: 2018

[DOI: 10.1016/j.sab.2019.05.019](https://doi.org/10.1016/j.sab.2019.05.019)  
<http://hdl.handle.net/11104/0297173>

**Juhászová, L.**

Mechanismy atomizace vybraných hydridotvorných prvků ve vyhřívaném křemenném atomizátoru a plazmovém atomizátoru s dielektrickou bariérou. Diplomová práce.  
[Mechanism of atomization of selected hydride forming elements in an externally heated quartz tube atomizer and a dielectric barrier discharge atomizer. Diploma thesis.]  
Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha: Univerzita Karlova, Přírodovědecká fakulta. 27.5.2019. - Praha: Univerzita Karlova, Přírodovědecká fakulta, 2019. 67 s.  
Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0296760>

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

Use of fused silica capillaries with etched surface to study bacteria–bacteriophage interaction.  
*ISSS 2019. Book of Abstracts*. University of Lodz, 2019 - (Kaluzna-Czaplińska, J.; Glowacki, R.). s. 172-172. ISBN 978-83-955239-0.  
[ISSS 2019. International Symposium on Separation Sciences /25./, 15.08.2019-18.08.2019, Łódź]  
Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0299508>

**Kellnerová, E. - Večeřa, Zbyněk - Kellner, J. - Zeman, T.**

Monitoring of indoor ultrafine particulate matter at the sites of the Czech Armed Forces.  
*Inżynieria Mineralna – czasopismo polskiego towarzystwa przeróbki kopalin*. Roč. 1, JAN (2019), s. 163-167. ISSN 1640-4920  
Obor OECD: Analytical chemistry

[DOI: 10.29227/IM-2019-01-31](https://doi.org/10.29227/IM-2019-01-31)  
<http://hdl.handle.net/11104/0298903>

**Klepárník, Karel - Ledvina, Vojtěch - Legartová, Soňa - Bártová, Eva**

Investigation of Cell Mobility and Deformability.  
*ITP 2019. Book of Abstracts*. Francie: University Paul Sabatier, 2019. s. 64-64.  
[ITP 2019. International Symposium on Electro separation and Liquid Phase-Separation Techniques /26./, 01.09.2019-04.09.2019, Toulouse]  
Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0299480>

**Knappová, M. - Dražota, P. - Falteisek, L. - Culka, A. - Penížek, V. - Trubač, J. - Mihaljevič, M. - Matoušek, Tomáš**

Microbial sulfidogenesis of arsenic in naturally contaminated wetland soil.  
*Geochimica et Cosmochimica Acta*. Roč. 267, DEC (2019), s. 33-50. ISSN 0016-7037  
Obor OECD: Analytical chemistry  
Impakt faktor: 4.258, rok: 2018

[DOI: 10.1016/j.gca.2019.09.021](https://doi.org/10.1016/j.gca.2019.09.021)  
<http://hdl.handle.net/11104/0299895>

**Kolrosová, Marta**

Generování hydridu bismutu pro atomovou absorpční a fluorescenční spektrometrii. Diplomová práce.  
[Hydride generation of bismuth for atomic absorption and fluorescence spectrometry. Diploma thesis.]  
Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha: Univerzita Karlova, Přírodovědecká fakulta.

27.5.2019. - Praha: Univerzita Karlova, Přírodovědecká fakulta, 2019. 63 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300069>

**Königsmarková, K.**

Mikrofluidický enzymatický reaktor pro testování léčiv. Diplomová práce.

[Microfluidic enzymatic reactor for drug screening. Diploma thesis.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Brno: Vysoké učení technické, Fakulta chemická.

28.5.2019. - Brno: Vysoké učení technické v Brně, 2019. 71 s.

Obor OECD: Analytical chemistry

<https://www.vutbr.cz/studenti/zav-prace/detail/116335>

<http://hdl.handle.net/11104/0296622>

**Kozáková, Jana - Pokorná, Petra - Vodička, Petr - Ondráčková, Lucie - Ondráček, Jakub - Křůmal, Kamil - Mikuška, Pavel - Hovorka, J. - Moravec, Pavel - Schwarz, Jaroslav**

The Influence of Local Emissions and Regional Air Pollution Transport on a European Air Pollution Hot Spot.

*Environmental Science and Pollution Research*. Roč. 26, č. 2 (2019), s. 1675-1692. ISSN 0944-1344

Obor OECD: Public and environmental health

Impakt faktor: 2.914, rok: 2018

DOI: [10.1007/s11356-018-3670-y](https://doi.org/10.1007/s11356-018-3670-y)

<http://hdl.handle.net/11104/0292917>

**Kratzer, Jan - Musil, Stanislav - Dědina, Jiří**

Feasibility of in-situ trapping of selenium hydride in a DBD atomizer for ultrasensitive Se determination by atomic absorption spectrometry studied with <sup>75</sup>Se radioactive indicator.

*Journal of Analytical Atomic Spectrometry*. Roč. 34, č. 1 (2019), s. 193-202. ISSN 0267-9477

Obor OECD: Analytical chemistry

Impakt faktor: 3.646, rok: 2018

DOI: [10.1039/C8JA00312B](https://doi.org/10.1039/C8JA00312B)

<http://hdl.handle.net/11104/0289354>

**Kratzer, Jan**

Současný stav a vývojové směry v AAS.

[AAS: state of the art and new trends.]

*Atomová absorpční spektrometrie. Kurz AAS II*. Praha: Spektroskopická společnost Jana Marka Marci, 2019 - (Otruba, V.), s. 14-27. ISBN 978-80-88195-17-7

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302278>

**Kratzer, Jan**

Prekoncentrační postupy ve stopové prvkové analýze.

[Preconcentration procedures in trace element analysis.]

*Atomová absorpční spektrometrie. Kurz AAS II*. Praha: Spektroskopická společnost Jana Marka Marci, 2019 - (Otruba, V.), s. 77-88. ISBN 978-80-88195-17-7

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302285>

**Křenková, Jana - Čmelík, Richard - Moravcová, Dana**

Investigation of a side reaction occurring during oligosaccharide labeling by (2-aminoethyl)trimethylammonium salt.

*30th MassSpec-Forum Vienna. Book of Abstracts*. Vienna: University of Vienna, 2019. Poster N\*4-Poster N\*4, N 8.

[MassSpec-Forum Vienna /30./ 19.02.2019-20.02.2019, Vienna]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0293819>

**Křenková, Jana - Klepárník, Karel - Luksch, Jaroslav - Foret, František**

Microfabricated liquid junction hybrid capillary electrophoresis-mass spectrometry interface for fully automated operation.

*Electrophoresis*. Roč. 40, 18-19 (2019), s. 2263-2270. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 2.754, rok: 2018

DOI: [10.1002/elps.201900049](https://doi.org/10.1002/elps.201900049)

<http://hdl.handle.net/11104/0296472>

**Křenková, Jana - Lišková, Marcela - Čmelík, Richard - Foret, František**

Synthesis, characterization and application of multi-cationic aminopyrene-based fluorescent tags for glycan analysis.

*12th Balaton Symposium on High-Performance Separation Methods. Book of Abstracts*. Budapest: Hungarian Society for Separation Science, 2019. s. 58-58. ISBN 978-615-5270-57-4.

[Balaton Symposium on High-Performance Separation Methods /12./ 11.09.2019-13.09.2019, Siófok]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299417>

**Křenková, Jana - Čmelík, Richard - Příklad, Jan**

Comparison of oligosaccharide labeling employing various derivatization chemistries.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 14-14.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./ 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299868>

**Křivánková, Jana - Hlaváček, Antonín - Příklad, Jan - Foret, František**

Microfluidic chip for analysis with photon-upconversion nanoparticles.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 41-41.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./ 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299817>

**Křivánková, Jana - Hlaváček, Antonín - Foret, František**

Droplet microfluidic with photon-upconversion sensing for enzyme assays.

*NanoBioTech-Montreux. Scientific Program & Proceedings*. Lausanne: The NanoBiotech Association, 2019, s. 94-95.

[NanoBioTech-Montreux 2019. The Annual European Conference on Micro & Nanoscale Technologies for the Life Sciences /23./ Montreux (CH), 18.11.2019-20.11.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302089>

**Křůmal, Kamil - Mikuška, Pavel**

Stanovení rychlých změn koncentrací těkavých organických sloučenin pomocí difúzního denuderu.

[Determination of fast changes in concentrations of volatile organic compounds using diffusion denuder.]

*Ovzduší 2019. Program a sborník konference*. Brno: Masarykova univerzita, 2019, s. 102-105. ISBN 978-80-210-9242-6.

[Ovzduší 2019. Brno (CZ), 16.04.2019-17.04.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0295806>

**Křůmal, Kamil - Mikuška, Pavel**

Polycyklické aromatické uhlovodíky v PM1 aerosolu na 6 lokalitách v České republice.

[Polycyclic aromatic hydrocarbons in PM1 aerosol in 6 localities in the Czech Republic.]

*Ovzduší 2019. Program a sborník konference.* Brno: Masarykova univerzita, 2019, s. 65-68. ISBN 978-80-210-9242-6.

[Ovzduší 2019. Brno (CZ), 16.04.2019-17.04.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0295812>

**Křůmal, Kamil - Mikuška, Pavel - Horák, J. - Hopan, F. - Krpec, K.**

Comparison of emissions of gaseous and particulate pollutants from the combustion of biomass and coal in modern and old-type boilers used for residential heating in the Czech Republic, Central Europe.

*Chemosphere.* Roč. 229, AUG (2019), s. 51-59. ISSN 0045-6535

Obor OECD: Analytical chemistry

Impakt faktor: 5.108, rok: 2018

DOI: [10.1016/j.chemosphere.2019.04.137](https://doi.org/10.1016/j.chemosphere.2019.04.137)

<http://hdl.handle.net/11104/0296144>

**Křůmal, Kamil - Mikuška, Pavel - Horák, J. - Hopan, F.**

Organické sloučeniny a markery ze spalování uhlí v různých typech kotlů používaných pro vytápění domácností.

[Organic compounds and markers from coal combustion in different types of boilers used for household heating.]

*Sborník XX. výroční konference České aerosolové společnosti.* Praha: Česká aerosolová společnost, 2019 - (Vlčková, L.), s. 55-58. ISBN 978-80-270-6416-8.

[Výroční konference České aerosolové společnosti /20./, Velké Bílovice (CZ), 30.10.2019-01.11.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300939>

**Kubáň, Pavel - Hauser, P.C.**

Contactless conductivity detection for analytical techniques: Developments from 2016 to 2018.

*Electrophoresis.* Roč. 40, č. 1 (2019), s. 124-139. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 2.754, rok: 2018

DOI: [10.1002/elps.201800248](https://doi.org/10.1002/elps.201800248)

<http://hdl.handle.net/11104/0289150>

**Kubáň, Pavel - Dvořák, Miloš - Ryšavá, Lenka - Šlampová, Andrea - Miková, B.**

Capillary electrophoresis for quantitative analysis of dried blood spot samples.

*ITP 2019. Book of Abstracts.* Francie: University Paul Sabatier, 2019. s. 76-76.

[ITP 2019. International Symposium on Electro-separation and Liquid Phase-Separation Techniques /26./, 01.09.2019-04.09.2019, Toulouse]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299308>

**Kubáň, Petr - Foret, František - Erny, G.**

Open source capillary electrophoresis.

*Electrophoresis.* Roč. 40, č. 1 (2019), s. 65-78. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 2.754, rok: 2018

DOI: [10.1002/elps.201800304](https://doi.org/10.1002/elps.201800304)

<http://hdl.handle.net/11104/0287099>

**Kubáň, Petr - Dvořák, Miloš - Kubáň, Pavel**

Capillary electrophoresis of small ions and molecules in less conventional human body fluid samples: A review.

*Analytica Chimica Acta*. Roč. 1075, OCT (2019), s. 1-26. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.256, rok: 2018

[DOI: 10.1016/j.aca.2019.05.004](https://doi.org/10.1016/j.aca.2019.05.004)  
<http://hdl.handle.net/11104/0296930>

**Kubíček, O. - Šalplachta, Jiří - Horká, Marie - Placáková, H. - Lunerová, K.**

Influence of inactivation methods on pathogen diagnostics by means of instrumental methods.

*MATTER: International Journal of Science and Technology*. Roč. 4, č. 3 (2019), s. 150-158. ISSN 2454-5880

Obor OECD: Analytical chemistry

[DOI: 10.20319/mijst.2019.43.150158](https://doi.org/10.20319/mijst.2019.43.150158)  
<http://hdl.handle.net/11104/0292401>

**Kubinyiová, L.**

Stanovení vlivu rozpouštědla na intenzitu fluorescence organických fluoroforů. Diplomová práce. [Determination of influence of solvent on fluorescence intensity of organic fluorophores. Diploma thesis.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Brno: Masarykova univerzita, Přírodovědecká fakulta. 3.6.2019. - Brno: Masarykova univerzita, Přírodovědecká fakulta, 2019. 74 s.

Obor OECD: Analytical chemistry

<https://is.muni.cz/th/jkusc?info=1;zpet=%2Fvyhledavani%2F%3Fsearch%3Dkubinyiova%20Lenka%26start%3D1>  
<http://hdl.handle.net/11104/0296744>

**Lačná, J. - Příkryl, Jan - Teshima, N. - Murakami, H. - Esaka, Y. - Foret, František - Kubáň, Petr**

Optimization of background electrolyte composition for simultaneous contactless conductivity and fluorescence detection in capillary electrophoresis of biological samples.

*Electrophoresis*. Roč. 40, 18-19 (2019), s. 2390-2397. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 2.754, rok: 2018

[DOI: 10.1002/elps.201900112](https://doi.org/10.1002/elps.201900112)  
<http://hdl.handle.net/11104/0299680>

**Laštovičková, Markéta - Bobál, P. - Strouhalová, Dana - Bobálová, Janette**

Acetonitrile-assisted enzymatic digestion can facilitate the Bottom-up identification of proteins of cancer origin.

*Analytical Biochemistry*. Roč. 570, APR (2019), s. 1-4. ISSN 0003-2697

Obor OECD: Analytical chemistry

Impakt faktor: 2.507, rok: 2018

[DOI: 10.1016/j.ab.2019.01.004](https://doi.org/10.1016/j.ab.2019.01.004)  
<http://hdl.handle.net/11104/0293142>

**Linhart, O. - Kolorosová-Mrázová, A. - Kratzer, Jan - Hraníček, J. - Červený, V.**

Mercury Speciation in Fish by High-Performance Liquid Chromatography (HPLC) and Post-Column Ultraviolet (UV)-Photochemical Vapor Generation (PVG): Comparison of Conventional Line-Source and High-Resolution Continuum Source (HR-CS) Atomic Absorption Spectrometry (AAS).

*Analytical Letters*. Roč. 52, č. 4 (2019), s. 613-632. ISSN 0003-2719

Obor OECD: Analytical chemistry

Impakt faktor: 1.248, rok: 2018

[DOI: 10.1080/00032719.2018.1483380](https://doi.org/10.1080/00032719.2018.1483380)  
<http://hdl.handle.net/11104/0289521>

**Lischková, L. - Pelclová, D. - Hlušička, J. - Navrátil, Tomáš - Vlčková, Š. - Fenclová, Z. - Dvořáčková, Š. - Popov, A. - Michalcová, A. - Marek, I. - Mikuška, Pavel - Ždímal, Vladimír - Koštejn, Martin - Ondráček, Jakub - Schwarz, Jaroslav - Zakharov, S.**

Detection and identification of engineered nanoparticles in exhaled breath condensate, blood serum, and urine of occupationally exposed subjects.

*Monatshefte fur Chemie*. Roč. 150, č. 3 (2019), s. 511-523. ISSN 0026-9247

Obor OECD: Physical chemistry

Impakt faktor: 1.501, rok: 2018

[DOI: 10.1007/s00706-019-2379-z](https://doi.org/10.1007/s00706-019-2379-z)  
<http://hdl.handle.net/11104/0295028>

**Machado, I. - Pistón, M. - Musil, Stanislav - Dědina, Jiří - Kratzer, Jan**

A modular trap-and-atomizer device with gold absorber for selenium collection after hydride generation.

*Colloquium Spectroscopicum Internationale XLI & I Latin American Meeting on LIBS. Book of Abstracts*. 2019. O.At.3.

[Colloquium Spectroscopicum Internationale /XLI./ & Latin American Meeting on LIBS /I./ CSI XLI. 09.06.2019-14.06.2019, Mexico City]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297186>

**Machová, Dita - Baar, J. - Paschová, Z. - Pařil, P. - Křenková, Jana - Kúdela, J.**

Color changes and accelerated ageing in oak wood treated with ammonia gas and iron nanoparticles.

*European Journal of Wood and Wood Products*. Roč. 77, č. 4 (2019), s. 705-716. ISSN 0018-3768

Obor OECD: Coating and films

Impakt faktor: 1.901, rok: 2018

<https://doi.org/10.1007/s00107-019-01406-x>

[DOI: 10.1007/s00107-019-01406-x](https://doi.org/10.1007/s00107-019-01406-x)  
<http://hdl.handle.net/11104/0295693>

**Malá, Zdeňka - Gebauer, Petr**

Recent progress in analytical capillary isotachopheresis.

*Electrophoresis*. Roč. 40, č. 1 (2019), s. 55-64. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 2.754, rok: 2018

[DOI: 10.1002/elps.201800239](https://doi.org/10.1002/elps.201800239)  
<http://hdl.handle.net/11104/0288209>

**Marschner, Karel - Pétursdóttir, Á. H. - Bücker, P. - Raab, A. - Feldmann, J. - Mester, Z. - Matoušek, Tomáš - Musil, Stanislav**

Validation and inter-laboratory study of selective hydride generation for fast screening of inorganic arsenic in seafood.

*Analytica Chimica Acta*. Roč. 1049, FEB (2019), s. 20-28. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.256, rok: 2018

[DOI: 10.1016/j.aca.2018.11.036](https://doi.org/10.1016/j.aca.2018.11.036)  
<http://hdl.handle.net/11104/0289533>

**Matoušek, Tomáš**

Generování hydridů ve spojení s hmotnostní spektrometrií s indukčně vázaným plazmatem.  
[Hydride generation in connection with inductively coupled plasma mass spectrometry.]  
*10. kurz ICP 2019*. Brno: Spektroskopická společnost Jana Marka Marci, 2019 - (Otruba, V.; Vaculovič, T.; Vašina, T.), s. 1-6. ISBN 978-80-88195-10-8.  
[Kurz ICP 2019 /10./ Brno (CZ), 27.05.2019-30.05.2019]  
Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0296943>

**Mickert, M. J. - Farka, Z. - Kostiv, Uliana - Hlaváček, Antonín - Horák, Daniel - Skládal, P. - Gorris, H. H.**

Measurement of sub-femtomolar concentrations of prostate-specific antigen through single-molecule counting with an upconversion-linked immunosorbent assay.  
*Analytical Chemistry*. Roč. 91, č. 15 (2019), s. 9435-9441. ISSN 0003-2700  
Obor OECD: Polymer science  
Impakt faktor: 6.350, rok: 2018

DOI: [10.1021/acs.analchem.9b02872](https://doi.org/10.1021/acs.analchem.9b02872)  
<http://hdl.handle.net/11104/0298861>

**Mikkonen, S. - Caslavská, J. - Gebauer, Petr - Thormann, W.**

Inverse cationic ITP for separation of methadone enantiomers with sulfated beta-cyclodextrin as chiral selector.  
*Electrophoresis*. Roč. 40, č. 5 (2019), s. 659-667. ISSN 0173-0835  
Obor OECD: Analytical chemistry  
Impakt faktor: 2.754, rok: 2018

DOI: [10.1002/elps.201800387](https://doi.org/10.1002/elps.201800387)  
<http://hdl.handle.net/11104/0288221>

**Mikuška, Pavel - Čapka, Lukáš - Večeřa, Zbyněk**

CGU-ACTJU sampler for analysis of water-soluble constituents of aerosols

*EAC -Online program*. -: Nordic Society for Aerosol Research, 2019. P1-089. ISBN N.  
[European Aerosol Conference EAC 2019. 25.08.2019-30.08.2019, Gothenburg]  
Obor OECD: Analytical chemistry  
<https://eac2019.se/program/>  
<http://hdl.handle.net/11104/0300193>

**Modlitbová, P. - Hlaváček, Antonín - Švestková, T. - Pořízka, P. - Šimoníková, L. - Novotný, K. - Kaiser, J.**

The effects of photon-upconversion nanoparticles on the growth of radish and duckweed: Bioaccumulation, imaging, and spectroscopic studies.  
*Chemosphere*. Roč. 225, JUN (2019), s. 723-734. ISSN 0045-6535  
Obor OECD: Analytical chemistry  
Impakt faktor: 5.108, rok: 2018

DOI: [10.1016/j.chemosphere.2019.03.074](https://doi.org/10.1016/j.chemosphere.2019.03.074)  
<http://hdl.handle.net/11104/0296434>

**Modlitbová, P. - Novotný, K. - Hlaváček, Antonín - Pořízka, P. - Kaiser, J.**

LIBS assessment of spatial photon-upconversion nanoparticle distribution in model plants (*R. sativus* and *L. minor*).  
*EMSLIBS 2019 Book of abstracts*. Praha: Spektroskopická společnost Jana Marka Marci, 2019, s. 78-79. ISBN 978-80-88195-13-9.  
[EMSLIBS 2019. Euro-Mediterranean Symposium on Laser-Induced Breakdown Spectroscopy /10./ Brno (CZ), 08.09.2019-13.09.2019]



Obor OECD: Analytical chemistry

<https://emslibs.com/>

<http://hdl.handle.net/11104/0301796>

**Moravcová, Dana - Planeta, Josef**

Retention and selectivity of sulfobetaine-stationary phase in methanol- and isopropanol-rich mobile phases.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 47-47.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./. 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299931>

**Moravcová, Dana - Čmelík, Richard - Křenková, Jana**

Purification of saccharides labeled by cationic tags.

*HPLC 2019. Final Program*. Milan: University of Milano-Bicocca, 2019. s. 1-2.

[HPLC 2019. International Symposium on High-Performance Liquid Phase Separation and Related Techniques /48./. 16.06.2019-20.06.2019, Milan]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300082>

**Moravcová, Dana - Čmelík, Richard - Křenková, Jana**

Salting-out liquid-liquid extraction of compounds with permanent positive charge.

*12th Balaton Symposium on High-Performance Separation Methods. Book of Abstracts*. Budapest: Hungarian Society for Separation Science, 2019. s. 85-85. ISBN 978-615-5270-57-4.

[Balaton Symposium on High-Performance Separation Methods /12./. 11.09.2019-13.09.2019, Siófok]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300086>

**Musil, Stanislav - Šoukal, Jakub - Vyhnanovský, Jaromír - Sturgeon, R. E.**

Photochemical vapor generation of transition metals – expanding to new analytes.

*Scientific Program. 15th Rio Symposium on Atomic Spectrometry*. 2019. s. 54-54.

[Rio Symposium on Atomic Spectrometry /15./. 06.10.2019-11.10.2019, Mendoza]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0301623>

**Musil, Stanislav**

Atomová fluorescenční spektrometrie (AFS).

[Atomic Fluorescence Spectrometry (AFS).]

*Atomová absorpční spektrometrie. Kurz AAS II*. Praha: Spektroskopická společnost Jana Marka Marci, 2019 - (Otruba, V.), s. 52-64. ISBN 978-80-88195-17-7

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302293>

**Musil, Stanislav**

Speciační analýza založená na generování hydridů a atomové absorpční a fluorescenční spektrometrii. [Speciation analysis based on hydride generation and atomic absorption and fluorescence spectrometry.]

*Atomová absorpční spektrometrie. Kurz AAS II*. Praha: Spektroskopická společnost Jana Marka Marci, 2019 - (Otruba, V.), s. 105-112. ISBN 978-80-88195-17-7

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302297>

**Novotný, Jakub - Jusková, Petra - Kupčík, R. - Bílková, Z. - Foret, František**

Simple fabrication of structured magnetic metallic nano-platelets for bio-analytical applications.

*Micromachines*. Roč. 10, č. 2 (2019), č. článku 106. ISSN 2072-666X

Obor OECD: Analytical chemistry

Impakt faktor: 2.426, rok: 2018

[DOI: 10.3390/mi10020106](https://doi.org/10.3390/mi10020106)

<http://hdl.handle.net/11104/0294601>

**Novotný, Jakub - Ostatná, Veronika - Foret, František**

Electrochemical analysis of glycoprotein samples prepared on a pneumatically-controlled microfluidic device.

*Electroanalysis*. Roč. 31, č. 10 (2019), s. 1994-2000. ISSN 1040-0397

Obor OECD: Analytical chemistry

Impakt faktor: 2.691, rok: 2018

[DOI: 10.1002/elan.201900275](https://doi.org/10.1002/elan.201900275)

<http://hdl.handle.net/11104/0299635>

**Petry-Podgórska, Inga - Migašová, M. - Kratzer, Jan**

Acidic and enzymatic hair degradation for mercury speciation analysis.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 69-69.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./. 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299932>

**Pétursdóttir, Á. H. - Musil, Stanislav - Friedrich, N. - Krupp, E. M. - Feldmann, J. - Gunnlaugsdóttir, H.**

High throughput determination of inorganic arsenic in rice using Hydride Generation-ICP-QQQ.

*Handbook of ICP-QQQ applications using the AGILENT 8800 and 8900*. Vol. 4th Edition. Agilent Technologies, 2019, s. 144-147

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297406>

**Planeta, Josef - Moravcová, Dana - King, A. W. T. - Wiedmer, S. K. - Karásek, Pavel - Roth, Michal**

Triethyl (vinylbenzyl) phosphonium stationary phase for both HILIC and RP chromatography on silica monolithic columns.

*ISSS 2019. Book of Abstracts*. University of Lodz, 2019 - (Kaluzna-Czaplińska, J.; Glowacki, R.). s. 153-153. ISBN 978-83-955239-0.

[ISSS 2019. International Symposium on Separation Sciences /25./. 15.08.2019-18.08.2019, Łódź]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299510>

**Pokorná, A. - Bobál, P. - Oravec, Michal - Rárová, L. - Bobálová, Janette - Jampílek, J.**

Investigation of permeation of theophylline through skin using selected piperazine-2,5-diones.

*Molecules*. Roč. 24, č. 3 (2019), s. 1-14, č. článku 566. ISSN 1420-3049

Obor OECD: Analytical chemistry

Impakt faktor: 3.060, rok: 2018

[DOI: 10.3390/molecules24030566](https://doi.org/10.3390/molecules24030566)

<http://hdl.handle.net/11104/0293095>

**Poláchová, V. - Pastucha, M. - Mikušová, Z. - Mickert, M. J. - Hlaváček, Antonín - Gorris, H. H. - Skládal, P. - Farka, Z.**

Click-conjugated photon-upconversion nanoparticles in an immunoassay for honeybee pathogen *Melissococcus plutonius*.

*Nanoscale*. Roč. 11, č. 17 (2019), s. 8343-8351. ISSN 2040-3364

Obor OECD: Analytical chemistry

Impakt faktor: 6.970, rok: 2018

[DOI: 10.1039/c9nr01246j](https://doi.org/10.1039/c9nr01246j)

<http://hdl.handle.net/11104/0296334>

**Román-Hidalgo, C. - Dvořák, Miloš - Kubáň, Petr - Martín-Valero, M. J. - Bello-López, M. A.**

Direct capillary electrophoresis analysis of basic and acidic drugs from microliter volume of human body fluids after liquid-phase microextraction through nano-fibrous membrane.

*Analytical and Bioanalytical Chemistry*. (2019), s. 1-11. ISSN 1618-2642

Obor OECD: Analytical chemistry

Impakt faktor: 3.286, rok: 2018

[DOI: 10.1007/s00216-019-02225-y](https://doi.org/10.1007/s00216-019-02225-y)

<http://hdl.handle.net/11104/0301646>

**Rössner ml., Pavel - Vrbová, Kristýna - Strapáčová, S. - Rössnerová, Andrea - Ambrož, Antonín - Brzicová, Taňa - Líbalová, Helena - Javorková, Eliška - Kulich, P. - Večeřa, Zbyněk - Mikuška, Pavel - Coufalík, Pavel - Křůmal, Kamil - Čapka, Lukáš - Dočekal, Bohumil - Moravec, Pavel - Šerý, Omar - Míšek, Ivan - Fictum, P. - Fišer, K. - Machala, M. - Topinka, Jan**

Inhalation of ZnO Nanoparticles: Splice Junction Expression and Alternative Splicing in Mice.

*Toxicological Sciences*. Roč. 168, č. 1 (2019), s. 190-200. ISSN 1096-6080

Impakt faktor: 3.564, rok: 2018

[DOI: 10.1093/toxsci/kfy288](https://doi.org/10.1093/toxsci/kfy288)

<http://hdl.handle.net/11104/0294446>

**Roth, Michal**

Cohesive energy densities versus internal pressures of near and supercritical fluids.

*Molecules*. Roč. 24, č. 5 (2019), č. článku 961. ISSN 1420-3049

Obor OECD: Analytical chemistry

Impakt faktor: 3.060, rok: 2018

[DOI: 10.3390/molecules24050961](https://doi.org/10.3390/molecules24050961)

<http://hdl.handle.net/11104/0294571>

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

The effect of membrane thickness on supported liquid membrane extractions in-line coupled to capillary electrophoresis for analyses of complex samples.

*Journal of Chromatography A*. Roč. 1596, JUL (2019), s. 226-232. ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 3.858, rok: 2018

[DOI: 10.1016/j.chroma.2019.02.067](https://doi.org/10.1016/j.chroma.2019.02.067)

<http://hdl.handle.net/11104/0296080>

**Ryšavá, Lenka - Dvořák, Miloš - Miková, B. - Kubáň, Pavel**

Pre-treatment and elution of amino acids from dried blood spots for direct determination by capillary electrophoresis.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 20-20.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./ 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299877>

**Sagapova, Linda - Svoboda, Milan - Musil, Stanislav - Kratzer, Jan**

Chemical vapor generation of cadmium for analytical atomic spectrometry.

*Scientific Program. 15th Rio Symposium on Atomic Spectrometry*. 2019. s. 119-119.

[Rio Symposium on Atomic Spectrometry /15./, 06.10.2019-11.10.2019, Mendoza]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302661>

**Sagapova, L.**

Optimalizace podmínek chemického generování a atomizace těkavých specií kadmia pro atomovou absorpční spektrometrii. Diplomová práce.

[Optimization of chemical generation and subsequent atomization of volatile cadmium species for atomic absorption spectrometry. Diploma thesis.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha: Univerzita Karlova, Přírodovědecká fakulta. 27.5.2019. - Praha: Univerzita Karlova, Přírodovědecká fakulta, 2019. 68 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0296763>

**Schrenková, V. - Kaňa, A. - Kratzer, Jan - Matoušek, Tomáš - Petry-Podgórska, Inga**

Speciační analýza rtuti: postkolonové generování hydridů a studium jejich dealkylací pomocí kryogenní pasti.

[Speciation analysis of mercury: post-column hydride generation and investigation of their dealkylations by cryogenic trap.]

*Studentská vědecká konference. Sborník anotací.* Praha: VŠCHT v Praze, 2019, s. 1-25.

[Studentská vědecká konference 2019. VŠCHT Praha (CZ), 22.11.2019-22.11.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302111>

**Straka, Marek**

Miniaturní plazmové DBD atomizátory pro AAS a AFS. Bakalářská práce.

[Miniature plasma DBD atomizer for AAS and AFS. Bachelor's thesis.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Univerzita Karlova. 24.1.2019. - Praha: Univerzita Karlova, 2019. 37 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0292724>

**Stratilová, B. - Firáková, Z. - Kludiny, J. - Šesták, S. - Kozmon, S. - Strouhalová, Dana - Garajová, S. - Ait-Mohand, F. - Horváthová, A. - Farkaš, V. - Stratilová, E. - Hrmova, M.**

Engineering the acceptor substrate specificity in the xyloglucan endotransglycosylase TmXET6.3 from nasturtium seeds (*Tropaeolum majus* L.).

*Plant Molecular Biology.* Roč. 100, 1-2 (2019), s. 181-197. ISSN 0167-4412

Obor OECD: Analytical chemistry

Impakt faktor: 3.928, rok: 2018

[DOI: 10.1007/s11103-019-00852-8](https://doi.org/10.1007/s11103-019-00852-8)

<http://hdl.handle.net/11104/0295980>

**Strouhalová, Dana - Toporová, L. - Laštovičková, Markéta - Macejová, D. - Bobálová, Janette - Brtko, J.**

Novel insights into the combined effect of triorganotin compounds and all-trans retinoic acid on expression of selected proteins associated with tumor progression in breast cancer cell line MDA-MB-231: Proteomic approach.

*General Physiology and Biophysics.* Roč. 38, č. 2 (2019), s. 135-144. ISSN 0231-5882

Obor OECD: Analytical chemistry

Impakt faktor: 1.309, rok: 2018

[DOI: 10.4149/gpb\\_2018042](https://doi.org/10.4149/gpb_2018042)

<http://hdl.handle.net/11104/0294423>

**Strouhalová, Dana - Macejová, D. - Bobál, P. - Otevřel, J. - Laštovičková, Markéta - Brtko, J. - Bobálová, Janette**

Srovnání vlivu přirozených a syntetických ligandů nukleárních retinoidních receptorů na expresi vimentinu v lidských buňkách rakoviny prsu.

[The comparison of the effect of natural and synthetic ligands of nuclear retinoid receptors on vimentin expression in human breast cancer cell line .]

*Endocrine Regulations*. Roč. 53, Supplement 1 (2019), s. 52-52. ISSN 1210-0668.

[Endokrinné disruptory. Bilaterálne vedecké sympóziium /3./ 29.05.2019-29.05.2019, Bratislava]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0296786>

**Svobodová, Z. - Novotný, Jakub - Foret, František - Bílková, Z.**

Víko držáku membrány pro přenos biomolekul a držák membrány pro přenos biomolekul pro provádění metody odsátí skvrn.

2019. Vlastník: Univerzita Pardubice; Ústav analytické chemie AV ČR, v. v. i. Datum udělení patentu: 27.11.2019. Číslo patentu: 308111

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302659>

**Šalplachta, Jiří - Horká, Marie - Šlais, Karel**

Capillary electrophoresis with preparative isoelectric focusing preconcentration for sensitive determination of amphotericin B in human blood serum.

*Analytica Chimica Acta*. Roč. 1053, APR (2019), s. 162-168. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.256, rok: 2018

DOI: [10.1016/j.aca.2018.12.010](https://doi.org/10.1016/j.aca.2018.12.010)

<http://hdl.handle.net/11104/0293037>

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

Capillary electrophoresis in a FS capillary with roughened part and MALDI-TOF MS for rapid identification of *Aspergillus* species in bronchoalveolar lavage.

*37th Informal Meeting on Mass Spectrometry*. 2019. s. 79-79. ISBN 978-88-9349-559-2.

[Informal Meeting on Mass Spectrometry /37./ 05.05.2019-08.05.2019, Fiera di Primiero]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297208>

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

Capillary electrophoresis and MALDI-TOF MS for rapid and reliable identification of viruses.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 9-9.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./ 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299866>

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

Nano-etched FS capillary for concentration, separation and detection of *Aspergillus* conidia with off-line matrix-assisted laser desorption/ionization time-of-flight mass spectrometry characterization.

*ChemZi*. Roč. 15, č. 1 (2019), s. 146-146. ISSN 1336-7242.

[ZJAZD CHEMIKOV /71./ 09.09.2019-13.09.2019, Vysoké Tarty]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300107>

**Šesták, Jozef - Planeta, Josef - Kahle, Vladislav**

Nanolitre-scale cell based on L-shaped silica capillary and optical fibre for absorption photometric detection in capillary liquid chromatography.

*Analytica Chimica Acta*. Roč. 1073, SEP (2019), s. 99-108. ISSN 0003-2670  
Obor OECD: Analytical chemistry  
Impakt faktor: 5.256, rok: 2018

[DOI: 10.1016/j.aca.2019.04.072](https://doi.org/10.1016/j.aca.2019.04.072)  
<http://hdl.handle.net/11104/0296487>

**Šesták, Jozef - Kahle, Vladislav**

Combined photometric detector utilizing light emitting diodes, 50 nL silica capillary cell, and CCD spectrometer.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 45-45.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./. 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299925>

**Šesták, Jozef - Planeta, Josef - Kahle, Vladislav**

Nanolitre-scale capillary cell with extended effective optical path and reduced stray light for absorption photometric detection.

*μTAS 2019. The 23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences*. 2019, s. 1407-1408. ISBN 978-1-7334190-0-0.

[μTAS 2019. International Conference on Miniaturized Systems for Chemistry and Life Sciences /23./. Basel (CH), 27.10.2019-31.10.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0301052>

**Šlampová, Andrea - Malá, Zdeňka - Gebauer, Petr**

Recent progress of sample stacking in capillary electrophoresis (2016–2018).

*Electrophoresis*. Roč. 40, č. 1 (2019), s. 40-54. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 2.754, rok: 2018

[DOI: 10.1002/elps.201800261](https://doi.org/10.1002/elps.201800261)  
<http://hdl.handle.net/11104/0288176>

**Šlampová, Andrea - Kubáň, Pavel**

Two-phase micro-electromembrane extraction across free liquid membrane for determination of acidic drugs in complex samples.

*Analytica Chimica Acta*. Roč. 1048, FEB (2019), s. 58-65. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.256, rok: 2018

[DOI: 10.1016/j.aca.2018.10.013](https://doi.org/10.1016/j.aca.2018.10.013)  
<http://hdl.handle.net/11104/0289151>

**Šoukal, Jakub - Musil, Stanislav**

Optimization of photochemical vapor generation of nickel with ICP-MS detection.

*Proceedings of the 15th International Students Conference "Modern Analytical Chemistry"*. Praha: Univerzita Karlova, Přírodovědecká fakulta, 2019 - (Nesměrák, K.), s. 179-183. ISBN 978-80-7444-068-7.

[International Students Conference "Modern Analytical Chemistry" /15./. Praha (CZ), 19.09.2019-20.09.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299629>

**Štádlerová, Barbora - Kolrosová, Marta - Dědina, Jiří - Musil, Stanislav**

Atomization of bismuthane in two flame atomizers for atomic fluorescence spectrometry.  
*Proceedings of the 15th International Students Conference "Modern Analytical Chemistry"*. Praha: Univerzita Karlova, Přírodovědecká fakulta, 2019 - (Nesměrák, K.), s. 208-214. ISBN 978-80-7444-068-7.

[International Students Conference "Modern Analytical Chemistry" /15./, Praha (CZ), 19.09.2019-20.09.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299583>

**Štádlerová, Barbora - Kolrosová, Marta - Dědina, Jiří - Musil, Stanislav**

Atomization of bismuthane and sensitive bismuth determination by atomic fluorescence spectrometry.  
*Scientific Program. 15th Rio Symposium on Atomic Spectrometry*. 2019. s. 53-53.

[Rio Symposium on Atomic Spectrometry /15./, 06.10.2019-11.10.2019, Mendoza]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0301667>

**Švehla, Jaroslav - Žídek, Radek - Ružovič, T. - Svoboda, K. - Kratzer, Jan**

Simple approaches to on-line and off-line speciation analysis of mercury in flue gases with detection by atomic absorption spectrometry: A pilot study.

*Spectrochimica Acta Part B: Atomic Spectroscopy*. Roč. 156, JUN (2019), s. 51-58. ISSN 0584-8547

Obor OECD: Analytical chemistry

Impakt faktor: 3.101, rok: 2018

[DOI: 10.1016/j.sab.2019.05.002](https://doi.org/10.1016/j.sab.2019.05.002)

<http://hdl.handle.net/11104/0296376>

**Týčová, Anna - Klepárník, Karel**

Combination of liquid-based column separations with surface-enhanced Raman spectroscopy.

*Journal of Separation Science*. Roč. 42, č. 1 (2019), s. 431-444. ISSN 1615-9306

Obor OECD: Analytical chemistry

Impakt faktor: 2.516, rok: 2018

[DOI: 10.1002/jssc.201800852](https://doi.org/10.1002/jssc.201800852)

<http://hdl.handle.net/11104/0289276>

**Týčová, Anna - Klepárník, Karel - Foret, František**

Bi-Ligand Modification of Nanoparticles: An Effective Tool for Surface-Enhanced Raman Spectrometry in Salinated Environments.

*Nanomaterials*. Roč. 9, č. 9 (2019), s. 1-8, č. článku 1259. ISSN 2079-4991

Obor OECD: Analytical chemistry

Impakt faktor: 4.034, rok: 2018

[DOI: 10.3390/nano9091259](https://doi.org/10.3390/nano9091259)

<http://hdl.handle.net/11104/0299071>

**Týčová, Anna - Prikryl, Jan - Krafft, B. - Klepárník, Karel - Belder, D. - Foret, František**

Ramanova spektrometrie: Od analýzy nízkomolekulárních látek až po profilování buněk.

*XXIII. Biologické dny, Moderní trendy biomedicínského výzkumu*. Vol. 1 vyd. Praha: Venice Praha, s.r.o., 2019 - (Ševčíková, S.). s. 34-34. ISBN 978-80-270-6488-5.

[XXIII. Biologické dny 2019. 09.09.2019-10.09.2019, Brno]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299302>

**Týčová, Anna - Prikryl, Jan - Vaňhara, P. - Klepárník, Karel - Foret, František**

Surface modification of nanoparticles for sustaining sensitivity of surface-enhanced raman spectrometric measurements in salinated environment.



*NANOCON 2019. International Conference on Nanomaterials - Research & Application /11./*. Ostrava: Tanger Ltd., 2019, s. 1-6.

[NANOCON 2019. International Conference on Nanomaterials - Research & Application /11./, Brno (CZ), 16.10.2019-18.10.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300383>

**Václavek, Tomáš - Přikryl, Jan - Foret, František**

Resistive pulse sensing as particle counting and sizing method in microfluidic systems: Designs and applications review.

*Journal of Separation Science*. Roč. 42, č. 1 (2019), s. 445-457. ISSN 1615-9306

Obor OECD: Analytical chemistry

Impakt faktor: 2.516, rok: 2018

DOI: [10.1002/jssc.201800978](https://doi.org/10.1002/jssc.201800978)

<http://hdl.handle.net/11104/0289298>

**Vaněk, D.**

Prekoncentrace hydridu selenu na zlatém povrchu - ultrastopové stanovení selenu metodami atomové spektrometrie. Diplomová práce.

[Preconcentration of analytically important hydride forming elements for their ultratrace determination by atomic spectrometry. Diploma thesis.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha: Vysoká škola chemicko-technologická v Praze. 5.6.2019. - Praha: Vysoká škola chemicko-technologická v Praze, 2019. 60 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297468>

**Vašínová Galiová, M. - Szaková, J. - Prokeš, L. - Čadková, Z. - Coufalík, Pavel - Kanický, V. - Otruba, V. - Tlustoš, P.**

Variability of trace element distribution in *Noccaea* spp., *Arabidopsis* spp., and *Thlaspi arvense* leaves: the role of plant species and element accumulation ability.

*Environmental Monitoring and Assessment*. Roč. 191, č. 3 (2019), č. článku 181. ISSN 0167-6369

Obor OECD: Analytical chemistry

Impakt faktor: 1.959, rok: 2018

DOI: [10.1007/s10661-019-7331-5](https://doi.org/10.1007/s10661-019-7331-5)

<http://hdl.handle.net/11104/0294430>

**Večeřová, Kristýna - Večeřa, Zbyněk - Mikuška, Pavel - Coufalík, Pavel - Oravec, Michal - Dočekal, Bohumil - Novotná, Kateřina - Veselá, Barbora - Pompeiano, A. - Urban, Otmar**

Temperature alters susceptibility of *Picea abies* seedlings to airborne pollutants: The case of CdO nanoparticles.

*Environmental Pollution*. Roč. 253, OCT 2019 (2019), s. 646-654. ISSN 0269-7491

Impakt faktor: 5.714, rok: 2018

<https://reader.elsevier.com/reader/sd/pii/S0269749119303227?token=809AF84CD9D88C571611D638E47320160B12F13EB917228D401467235C8A6A70B42A553C58498A4E3BC8EB8B36B8B6E1>

DOI: [10.1016/j.envpol.2019.07.061](https://doi.org/10.1016/j.envpol.2019.07.061)

<http://hdl.handle.net/11104/0297821>

**Vítová, E. - Zemanová, J. - Butorová, Lenka - Šimíčková, A. - Dubašáková, M.**

Flavour of red, white and black currants: comparison of instrumental and sensory data.

*2nd Food Chemistry Conference: Shaping the Future of Food Quality, Safety, Nutrition and Health*. 2019. s. 66-66.

[Food Chemistry Conference: Shaping the Future of Food Quality, Safety, Nutrition and Health /2./, 17.09.2019-19.09.2019, Seville]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0300231>

**Voráčová, Ivona - Foret, František - Datinská, Vladimíra - Novotný, Jakub - Gheibi, P. - Berka, J. - Astier, Y.**

Epitachophoresis – new tool for large volume concentration.

*CECE 2019*. Gdańsk: University of Gdańsk, 2019. s. 5-5.

[CECE 2019. International Interdisciplinary Meeting on Bioanalysis /16./ 24.09.2019-26.09.2019, Gdańsk]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299854>

**Voráčová, Ivona - Datinská, Vladimíra - Novotný, Jakub - Foret, František - Gheibi, P. - Astier, Y. - Berka, J.**

Elektromigrační metody: Epitachoforéza.

[Electromigration methods: Epitachophoresis.]

Analýza organických látek, 8. ročník kurzu, Lednice 7. - 9. 10.2019: 2THETA ASE, s.r.o., 2019, 31 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0301700>

**Vošahlíková, Miroslava - Roubalová, Lenka - Ujčíková, Hana - Hloušková, Martina - Musil, Stanislav - Alda, M. - Svoboda, Petr**

Na<sup>+</sup>/K<sup>+</sup>-ATPase level and products of lipid peroxidation in live cells treated with therapeutic lithium for different periods in time (1, 7, and 28 days), studies of Jurkat and HEK293 cells.

*Naunyn-Schmiedeberg's Archives of Pharmacology*. Roč. 392, č. 7 (2019), s. 785-799. ISSN 0028-1298

Obor OECD: Physiology (including cytology)

Impakt faktor: 2.058, rok: 2018

DOI: [10.1007/s00210-019-01631-4](https://doi.org/10.1007/s00210-019-01631-4)

<http://hdl.handle.net/11104/0297148>

**Vošahlíková, Miroslava - Roubalová, Lenka - Hloušková, Martina - Cechová, Kristína - Musil, Stanislav - Mikšík, Ivan - Alda, M. - Svoboda, Petr**

Na<sup>+</sup>/K<sup>+</sup>-ATPase and lipid peroxidation products in the forebrain cortex of sleep-deprived rats treated with therapeutic lithium.

*Journal of Neurochemistry*. Roč. 150, Suppl. 1 (2019), s. 222-223. ISSN 0022-3042.

[ISN-ASN 2019 Meeting. 04.08.2019-08.08.2019, Montreal]

Obor OECD: Analytical chemistry

DOI: [doi: 10.1111/jnc.14777](https://doi.org/10.1111/jnc.14777)

<http://hdl.handle.net/11104/0298758>

**Vyhnanovský, Jaromír - Musil, Stanislav**

Photochemical generation of volatile species of cobalt for analytical atomic spectrometry.

*Book of Abstracts of CSI XLI & I LAMLIBS*. University of Mexico, 2019. s. 276-276. ISBN N.

[Colloquium Spectroscopicum Internationale (CSIXLI) /61./ and first Latin-American Meeting on Laser Induced Breakdown Spectroscopy (LAMLIBS) /1./ 09.06.2019-14.06.2019, Mexico City]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0297329>

**Vyhnanovský, Jaromír - Yildiz, D. - Musil, Stanislav**

Effect of metal sensitizers on photochemical vapor generation of bismuth for analytical atomic spectrometry.

*Proceedings of the 15th International Students Conference "Modern Analytical Chemistry"*. Praha:

Univerzita Karlova, Přírodovědecká fakulta, 2019 - (Nesměrák, K.), s. 257-262. ISBN 978-80-7444-068-7.

[International Students Conference "Modern Analytical Chemistry" /15./ Praha (CZ), 19.09.2019-

20.09.2019]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0299586>

**Vyhnanovský, Jaromír - Sturgeon, R. E. - Musil, Stanislav**

Cadmium Assisted Photochemical Vapor Generation of Tungsten for Detection by Inductively Coupled Plasma Mass Spectrometry.

*Analytical Chemistry*. Roč. 91, č. 20 (2019), s. 13306-13312. ISSN 0003-2700

Obor OECD: Analytical chemistry

Impakt faktor: 6.350, rok: 2018

[DOI: 10.1021/acs.analchem.9b04241](https://doi.org/10.1021/acs.analchem.9b04241)

<http://hdl.handle.net/11104/0300320>

**Vyhnanovský, Jaromír - Musil, Stanislav**

Photochemical vapor generation of cobalt with AAS and ICP-MS detection.

*Scientific Program. 15th Rio Symposium on Atomic Spectrometry*. 2019. s. 120-120.

[Rio Symposium on Atomic Spectrometry /15./ 06.10.2019-11.10.2019, Mendoza]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0302660>

**Zapletal, Miloš - Mikuška, Pavel**

Ammonia emissions and dry deposition in the vicinity of dairy farms.

*Atmosfera*. Roč. 32, č. 4 (2019), s. 337-350. ISSN 0187-6236

Obor OECD: Meteorology and atmospheric sciences

Impakt faktor: 1.438, rok: 2018

[DOI: 10.20937/ATM.2019.32.04.06](https://doi.org/10.20937/ATM.2019.32.04.06)

<http://hdl.handle.net/11104/0300855>

**Zvěřina, O. - Kuta, J. - Coufalík, Pavel - Kosečková, P. - Komárek, J.**

Simultaneous determination of cadmium and iron in different kinds of cereal flakes using high-resolution continuum source atomic absorption spectrometry.

*Food Chemistry*. Roč. 298, č. 15 (2019), s. 1-5, č. článku 125084. ISSN 0308-8146

Obor OECD: Analytical chemistry

Impakt faktor: 5.399, rok: 2018

[DOI: 10.1016/j.foodchem.2019.125084](https://doi.org/10.1016/j.foodchem.2019.125084)

<http://hdl.handle.net/11104/0298122>

**Ždímal, Vladimír - Mikuška, Pavel - Čapka, Lukáš - Moravec, Pavel - Vlčková, Lucia (ed.)**

Výroční konference České aerosolové společnosti /20./.

[Annual Conference of the Czech Aerosol Society /20./.]

[Velké Bílovice, 30.10.2019-01.11.2019, (K-EUR 54/6)]

Obor OECD: Environmental sciences (social aspects to be 5.7)

<http://cas.icpf.cas.cz/index.php>

<http://hdl.handle.net/11104/0301160>

**Žídek, Radek**

Speciační analýza rtuti v kapalných a plynných vzorcích. Diplomová práce.

[Speciation analysis of mercury in liquid and gaseous samples. Diploma thesis.]

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

27.5.2019. - Praha: Univerzita Karlova, Přírodovědecká fakulta, 2019. 61 s.

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0296764>

**Židek, R. - Juhászová, L. - Petry-Podgórska, Inga - Kratzer, Jan - Matoušek, Tomáš**

Exploring the generation of volatile mercury species by cryotrapping with ICP-MS detection.

*Book of Abstracts. European Winter Conference on Plasma Spectrochemistry. 2019. s. 447-447.*

[European Winter Conference on Plasma Spectrochemistry. 03.02.2019-08.02.2019, Pau]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0293643>

**Stav ke dni: 6. 12. 2019**