

**Publikace vydané v roce 2016**


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**Adamová, Eva - Janečková, Eva - Klepárník, Karel - Matalová, Eva**

Caspases and osteogenic markers-in vitro screening of inhibition impact.

*In Vitro - Cellular and Developmental Biology. Animal Section.* Roč. 52, č. 2 (2016), s. 144-148 ISSN 1071-2690

Impakt faktor: 0.971, rok: 2015

 [DOI: 10.1007/s11626-015-9964-1](https://doi.org/10.1007/s11626-015-9964-1)**Albrecht, Michal**

Praktické využití plazmového atomizátoru s dielektrickou bariérou v atomové absorpční spektrometrii s generováním hydridů (HG-DBD-AAS). Bakalářská práce.

[Application of a dielectric barrier discharge plasma atomizer to hydride generation absorption spectrometry (HG-DBD-AAS).]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha. 06.06.2016. - Praha: Univerzita Karlova v Praze, 2016. 62 s.

<http://hdl.handle.net/11104/0260260>**Bobálová, Janette - Černíková, A. - Bobál, P. - Jampílek, J.**

Screening of acyclovir permeation through skin using alaptide.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i, 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 83-86. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265746>**Bodnar, J. - Szekrényes, A. - Szigeti, M. - Járvas, G. - Křenková, Jana - Foret, František - Guttman, A.**

Enzymatic removal of N-glycans by PNGase F coated magnetic microparticles.

*Electrophoresis.* Roč. 37, č. 10 (2016), s. 1264-1269 ISSN 0173-0835

Impakt faktor: 2.482, rok: 2015

 [DOI: 10.1002/elps.201500575](https://doi.org/10.1002/elps.201500575)<http://hdl.handle.net/11104/0260520>**Brandt, S. - Schütz, A. - Klute, F. D. - Kratzer, Jan - Franzke, J.**

Dielectric barrier discharges applied for optical spectrometry.

*Spectrochimica Acta Part B: Atomic Spectroscopy.* Roč. 123, SEP (2016), s. 6-32 ISSN 0584-8547

Impakt faktor: 3.289, rok: 2015

 [DOI: 10.1016/j.sab.2016.07.001](https://doi.org/10.1016/j.sab.2016.07.001)<http://hdl.handle.net/11104/0260982>**Brtko, J. - Toporová, L. - Macejová, D. - Bialešová, L. - Flodrová, Dana - Bobálová, Janette**

Effect of two retinoic acid isomers on the expression of selected nuclear retinoid receptors and protein pattern in human MCF-7 breast cancer cell line.

*Program a abstrakta. Genetická toxikologie a prevence rakoviny.* 2016, s. 60-61. ISBN 978-80-88038-04-7.

[Genetická toxikologie a prevence rakoviny. Telč (CZ), 11.05.2016-13.05.2016]

<http://hdl.handle.net/11104/0259831>

**Brtko, J. - Flodrová, Dana - Benkovská, Dagmar - Macejová, D. - Bialešová, L. - Hunaková, L. - Bobálová, Janette**

Protein composition of MCF-7 human breast cancer cells induced by all-trans retinoic acid, 9-cis retinoic acid and their combination.

*Sborník přednášek a posterů XXV. Biochemický sjezd.* Praha: Česká společnost pro biochemii a molekulární biologii, 2016. P018

[Biochemický sjezd /25./ 13.09.2016-16.09.2016, Praha]

<http://hdl.handle.net/11104/0265268>

**Coufalík, Pavel - Mikuška, Pavel - Čmelík, Richard**

Determination of levoglucosan in urban aerosol.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 100-102. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./ Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265915>

**Coufalík, Pavel - Mikuška, Pavel - Matoušek, Tomáš - Večeřa, Zbyněk**

Determination of the bioaccessible fraction of metals in urban aerosol using simulated lung fluids.

*Atmospheric Environment.* Roč. 140, SEP (2016), s. 469-475 ISSN 1352-2310

Impakt faktor: 3.459, rok: 2015

DOI: [10.1016/j.atmosenv.2016.06.031](https://doi.org/10.1016/j.atmosenv.2016.06.031)

<http://hdl.handle.net/11104/0260320>

**Coufalík, Pavel - Procházková, P. - Zvěřina, O. - Trnková, K. - Skácelová, K. - Nývlt, D. - Komárek, J.**

Freshwater mineral nitrogen and essential elements in autotrophs in James Ross Island, West Antarctica.

*Polish Polar Research.* Roč. 37, č. 4 (2016), s. 477-491 ISSN 0138-0338

Impakt faktor: 1.182, rok: 2015

DOI: [10.1515/popore-2016-0025](https://doi.org/10.1515/popore-2016-0025)

<http://hdl.handle.net/11104/0263464>

**Coufalík, Pavel - Mikuška, Pavel - Čmelík, Richard - Večeřa, Zbyněk**

Preconcentration and determination of levoglucosan in ambient air.

*6th International IUPAC Conference On Green Chemistry. Sustainability through Green Chemistry. Book of Abstracts.* IUPAC, 2016. s. 323-323.

[International IUPAC Conference On Green Chemistry /6./ 04.09.2016-08.09.2016, Venezia]

<http://hdl.handle.net/11104/0262065>

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

The direct determination of HgS by thermal desorption coupled with atomic absorption spectrometry.

*Spectrochimica Acta Part B: Atomic Spectroscopy*. Roč. 118, APR (2016), s. 1-5 ISSN 0584-8547

Impakt faktor: 3.289, rok: 2015

DOI: [10.1016/j.sab.2016.01.004](https://doi.org/10.1016/j.sab.2016.01.004)

<http://hdl.handle.net/11104/0257387>

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

Determination of dicarboxylic acids in atmospheric aerosols using ion chromatography with on-line connected preconcentration unit.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 89-91. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265913>

**Česla, P. - Vaňková, N. - Křenková, Jana - Fischer, J.**

Comparison of isocratic retention models for hydrophilic interaction liquid chromatographic separation of native and fluorescently labeled oligosaccharides.

*Journal of Chromatography A*. Roč. 1438, MAR (2016), s. 179-188 ISSN 0021-9673

Impakt faktor: 3.926, rok: 2015

DOI: [10.1016/j.chroma.2016.02.032](https://doi.org/10.1016/j.chroma.2016.02.032)

<http://hdl.handle.net/11104/0257949>

**Čmelík, Richard - Foret, František**

Evaluation of stationary phases for HPLC based on nanofibers.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 97-100. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265435>

**Čmelík, Richard - Bobálová, Janette**

Metody štěpení proteinů využitelné v proteomické analýze.

[Methods of protein digestion utilizable in proteomic analysis.]

*Chemické listy*. Roč. 110, č. 3 (2016), s. 174-178 ISSN 0009-2770

Impakt faktor: 0.279, rok: 2015

<http://hdl.handle.net/11104/0250845>

**Datinská, Vladimíra - Klepárník, Karel - Minárik, M. - Belšánová, B. - Foret, František**

Development of FRET-based sensor for detection of DNA mutation.

*Conference Program. MSB 2016*. 2016. ISBN N.

[International Symposium on Microscale Separations and Bioanalysis /32./. 03.04.2016-07.04.2016, Niagara on the Lake]

<http://hdl.handle.net/11104/0265228>

**Datinská, Vladimíra - Klepárník, Karel - Belšánová, B. - Minárik, M. - Foret, František**

Characterization of FRET sensor.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 103-105. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265749>

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

Recent advances in hydride generation for atomic absorption spectrometry: Atomizer optimization by two-photon absorption laser-induced fluorescence.

*XXIst Slovak-Czech Spectroscopic Conference. Book of abstracts.* Košice: Technická univerzita v Košiciach, 2016 - (Remeteiová, D.; Ružičková, S.). s. 25-25. ISBN 978-80-553-2636-8.

[Slovak-Czech Spectroscopic Conference /21./. 16.10.2016-20.10.2016, Liptovský Ján,]

<http://hdl.handle.net/11104/0263227>

**Dočekal, Bohumil - Večeřa, Zbyněk - Mikuška, Pavel - Šurýn, P. - Dufka-Gregušová, Michaela - Coufalík, Pavel**

Analysis of mice organs and blood from inhalation experiments with selected metal oxides nanoparticles.

*XXIst Slovak-Czech Spectroscopic Conference. Book of abstracts.* Košice: Technická univerzita v Košiciach, 2016 - (Remeteiová, D.; Ružičková, S.). s. 23-23. ISBN 978-80-553-2636-8.

[Slovak-Czech Spectroscopic Conference /21./. 16.10.2016-20.10.2016, Liptovský Ján,]

<http://hdl.handle.net/11104/0263221>

**Drábek, A. - Smolíková, M. - Kalendar, R. - Pinto, F. A. L. - Pavloušek, P. - Klepárník, Karel - Frébort, I.**

Design and validation of an STR hexaplex assay for DNA profiling of grapevine cultivars.

*Electrophoresis.* Roč. 37, 23-24 (2016), s. 3059-3067 ISSN 0173-0835

Impakt faktor: 2.482, rok: 2015

[DOI: 10.1002/elps.201600068](https://doi.org/10.1002/elps.201600068)

**Dumková, J. - Vrlíková, Lucie - Večeřa, Zbyněk - Putnová, Barbora - Dočekal, Bohumil - Mikuška, Pavel - Fictum, P. - Hampl, A. - Buchtová, Marcela**

Inhaled Cadmium Oxide Nanoparticles: Their in Vivo Fate and Effect on Target Organs.

*International Journal of Molecular Sciences.* Roč. 17, č. 6 (2016), s. 874-893 E-ISSN 1422-0067

Impakt faktor: 3.257, rok: 2015

[DOI: 10.3390/ijms17060874](https://doi.org/10.3390/ijms17060874)

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

Concentration of atomic hydrogen measured in a heated atomizer by two-photon absorption laser-induced fluorescence.

*Hakone XV: International Symposium on High Pressure Low Temperature Plasma Chemistry. Book of Contributed Papers.* Brno: Masaryk University, 2016, s. 148-151. ISBN 978-80-210-8317-2.

[International Symposium on High Pressure Low Temperature Plasma Chemistry /15./. Brno (CZ), 11.09.2016-16.09.2016]

<http://hdl.handle.net/11104/0262303>

**Dvořák, P. - Talába, M. - Mrkvičková, M. - Obrusník, A. - Ráhel', J. - Dědina, Jiří - Kratzer, Jan**

Fluorescence measurements of atomic hydrogen radicals in active environments ignited at atmospheric pressure.

*ESCAMPIG XXIII. Proceedings.* 2016, s. 76-77. ISBN 979-1-09-638902-5.

[Europhysics Conference on Atomic and Molecular Physics of Ionized Gases /23./. Bratislava (SK), 12.07.2016-16.07.2016]

<http://hdl.handle.net/11104/0262298>

**Fajgarová, Aneta**

Stopová speciální analýza arsenu v nápojích. Bakalářská práce.

[Trace speciation analysis of arsenic in beverages.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha. 07.09.2016. - Praha: Univerzita Karlova v Praze, 2016. 30 s.

<http://hdl.handle.net/11104/0261931>

**Figala, J. - Hohnová, Barbora - Moravcová, Dana - Lvončík, S. - Lojková, L. - Formánek, P.**

Root Exudation in Common Ragweed (*Ambrosia Artemisiifolia* L.).

*Journal of Applicable Chemistry.* Roč. 5, č. 5 (2016), s. 1034-1037 ISSN 2278-1862

<http://hdl.handle.net/11104/0263483>

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

A comparative study of protein patterns of human estrogen receptor positive (MCF-7) and negative (MDA-MB-231) breast cancer cell lines.

*General Physiology and Biophysics.* Roč. 35, č. 3 (2016), s. 387-392 ISSN 0231-5882

Impakt faktor: 0.892, rok: 2015

DOI: [10.4149/gpb\\_2016009](https://doi.org/10.4149/gpb_2016009)

<http://hdl.handle.net/11104/0260102>

**Flodrová, Dana - Bobálová, Janette - Laštovičková, Markéta**

Cereal n-glycoproteins enrichment by lectin affinity monolithic chromatography.

*Cereal Research Communications.* Roč. 44, č. 2 (2016), s. 286-297 ISSN 0133-3720

Impakt faktor: 0.528, rok: 2015

DOI: [10.1556/0806.44.2016.019](https://doi.org/10.1556/0806.44.2016.019)

<http://hdl.handle.net/11104/0260261>

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

Comparative evaluation of protein composition in human breast cancer cells using mass spectrometry.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 114-117. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265753>

**Foret, František - Křenková, Jana - Drobníková, Iveta - Klepárník, Karel**

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.*

Brno: Ústav analytické chemie AV ČR, v. v. i., 2016. 278 s. ISBN 978-80-904959-4-4.  
[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ),  
17.10.2016-19.10.2016]

[http://www.ce-ce.org/CECE2016/Proceedings%20CECE%202016\\_WOS\\_final2.pdf](http://www.ce-ce.org/CECE2016/Proceedings%20CECE%202016_WOS_final2.pdf)  
<http://hdl.handle.net/11104/0264099>

**Foret, František - Křenková, Jana - Klepárník, Karel - Drobníková, Iveta**

*CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./.*

[Brno, 17.10.2016-19.10.2016, (K-WRD 120/40)]

[http://www.ce-ce.org/CECE2016/Proceedings%20CECE%202016\\_program\\_final.pdf](http://www.ce-ce.org/CECE2016/Proceedings%20CECE%202016_program_final.pdf)

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

Design of a hybrid liquid junction CE/MS interface.

*Book of Abstracts. 27 th MassSpec Forum Vienna.* University of Vienna: Austrian Society of Analytical Chemistry, 2016. s. 41-41.

[MassSpec Forum Vienna /27./. 23.02.2016-24.02.2016, Vienna]

<http://hdl.handle.net/11104/0265227>

**Foret, František - Křenková, Jana - Klepárník, Karel - Týčová, Anna - Partyka, Jan**

Kapilární separace, mikrofluidika a hmotnostní spektrometrie pro bioanalýzu.

*Sborník přednášek a posterů XXV. Biochemický sjezd.* Praha: Česká společnost pro biochemii a molekulární biologii, 2016

[Biochemický sjezd /25./. 13.09.2016-16.09.2016, Praha]

<http://hdl.handle.net/11104/0265273>

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

Nanospray interfacing for capillary electrophoresis-mass spectrometry.

*Abstract book 40th ISCC and 13th GC×GC Symposium.* Messina: Chromaleont S.r.L, 2016 - (Mondello, L.; Dugo, P.). s. 117-117. ISBN 978-88-941816-0-9.

[ISCC /40./ and GC×GC Symposium /13./. 29.05.2016-03.06.2016, Riva del Garda]

<http://hdl.handle.net/11104/0260099>

**Foret, František - Křenková, Jana - Morávková, J. - Buk, J.**

Použití anorganických nanovláken pro záchyt sloučenin s fosfátovou skupinou ve své struktuře.

[Use of inorganic nanofibers for capture of compositions with phosphate group in their structure.]

2016. Vlastník: Masarykova univerzita, Brno, CZ; Pardam, s.r.o., Pardubice, CZ; Ústav analytické chemie AV ČR, v. v. i., Brno, CZ. Datum udělení patentu: 17.08.2016. Číslo patentu: 306204

[https://isdv.upv.cz/webapp/webapp.pts.det?xprim=10096115&lan=cs&s\\_majs=&s\\_puvo=&s\\_naze=&s\\_anot=](https://isdv.upv.cz/webapp/webapp.pts.det?xprim=10096115&lan=cs&s_majs=&s_puvo=&s_naze=&s_anot=)  
<http://hdl.handle.net/11104/0258379>

**Foret, František - Křenková, Jana - Morávková, J. - Buk, J.**

Průtokové zařízení pro selektivní adsorpci a zakoncentrování složek kapalného vzorku.

[Flow-through device for selective adsorption and concentration of liquid sample



components.]

2016. Vlastník: Masarykova univerzita, Brno, CZ; Pardam, s.r.o., Pardubice, CZ; Ústav analytické chemie AV ČR, v. v. i., Brno, CZ. Datum udělení vzoru: 15.11.2016. Číslo vzoru: 29993

<http://hdl.handle.net/11104/0264595>

**Hlaváček, Antonín - Farka, Z. - Hübner, M. - Hornáková, V. - Němeček, D. - Niessner, R. - Skládal, P. - Knopp, D. - Gorris, H H.**

Competitive upconversion-linked immunosorbent assay for the sensitive detection of Diclofenac.

*Analytical Chemistry*. Roč. 88, č. 11 (2016), s. 6011-6017 ISSN 0003-2700

Impakt faktor: 5.886, rok: 2015

[DOI: 10.1021/acs.analchem.6b01083](https://doi.org/10.1021/acs.analchem.6b01083)

**Hohnová, Barbora - Šalplachta, Jiří - Roth, Michal**

Investigation of bioactive proteins in pressurized water extract of *Sambucus nigra* L. branches.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 123-126. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265916>

**Hohnová, Barbora - Šalplachta, Jiří - Roth, Michal**

Pressurized hot water extraction as sample treatment method for characterization of biological active compounds in *Sambucus nigra* L. branches.

*ExTech 2016 & ISSS 2016. Abstract Book*. Toruń: Nicolaus Copernicus University, 2016 - (Buszewski, B.; Kowalska, J.). s. 146-146

[International Symposium on Advances in Extraction Technologies /18./ & International Symposium on Separation Sciences /22./. 03.07.2016-06.07.2016, Toruń]

<http://hdl.handle.net/11104/0260688>

**Horká, Marie - Šlais, Karel - Karásek, Pavel - Růžička, F. - Šalplachta, Jiří - Šesták, Jozef - Kahle, Vladislav - Roth, Michal**

Capillary electrophoresis in a fused-silica capillary with surface roughness gradient.

*Journal of Separation Science*. Roč. 39, č. 19 (2016), s. 3827-3834 ISSN 1615-9306

Impakt faktor: 2.741, rok: 2015

[DOI: 10.1002/jssc.201600660](https://doi.org/10.1002/jssc.201600660)

<http://hdl.handle.net/11104/0262888>

**Horká, Marie - Kubesová, Anna - Moravcová, Dana - Šalplachta, Jiří - Šesták, Jozef - Tesařová, Marie - Růžička, F.**

Identification of Nosocomial Pathogens and Antimicrobials Using Phenotypic Techniques.

*Frontiers in Clinical Drug Research: Anti-Infectives*. Vol. 2. Sharjah: Bentham Science Publishers, 2016, s. 151-203. ISBN 978-1-68108-154-0

<http://hdl.handle.net/11104/0252211>

**Huber, C. S. - Vale, M. G. R. - Dessuy, M. B. - Svoboda, Milan - Dědina, Jiří**

Arsenic speciation in baby food by HG-CT-AAS.

*XXIst Slovak-Czech Spectroscopic Conference. Book of abstracts.* Košice: Technická univerzita v Košiciach, 2016 - (Remeteiová, D.; Ružičková, S.). s. 86-86. ISBN 978-80-553-2636-8.

[Slovak-Czech Spectroscopic Conference /21./ 16.10.2016-20.10.2016, Liptovský Ján,]  
<http://hdl.handle.net/11104/0263224>

**Huber, C. S. - Vale, M. G. R. - Dessuy, M. B. - Svoboda, Milan - Dědina, Jiří**

Slurry sampling hydride generation-cryotrapping-atomic absorption spectrometry for arsenic speciation analysis in baby food.

*European Symposium on Atomic Spectrometry ESAS 2016. Book of Abstracts.* Hungarian Chemical Society, 2016 - (Mihucz, V.). s. 165. ISBN 978-963-9970-65-6.

[European Symposium on Atomic Spectrometry /ESAS 2016/ & Hungarian Spectrochemical Conference /59./ 31.03.2016-02.04.2016, Eger]

<http://hdl.handle.net/11104/0258913>

**Jarošíková, A. - Ettler, V. - Mihaljevič, M. - Penížek, V. - Matoušek, Tomáš**

Reactivity of As-rich smelter dust in contrasting soils – a two year in situ experimental study.

*Arsenic Research and Global Sustainability.* London: Taylor & Francis Group, 2016 - (Bhattacharya, P.; Vahter, M.; Jarsjö, J.), s. 219-220. ISBN 978-1-138-02941-5.

[International Congress on Arsenic in the Environment. As 2016 /6./ Stockholm (SE), 19.06.2016-23.06.2016]

<http://hdl.handle.net/11104/0260655>

**Jiménez-Córdova, M. I. - Sánchez-Peña, L. C. - Matoušek, Tomáš - Villarreal, E. - Cárdenas-González, M. - Barrera-Hernández, A. - González-Horta, M. C. - Barbier, O. C. - Del Razo, L. M.**

Arsenic metabolism profile in an adult population environmentally coexposed to fluoride and moderate level of arsenic.

*Toxicology Letters.* Elsevier. 259S, OCT (2016), S121-S121. ISSN 0378-4274.

[International Congress of Toxicology /14./ 02.10.2016-06.10.2016, Merida]

DOI: [10.1016/j.toxlet.2016.07.310](https://doi.org/10.1016/j.toxlet.2016.07.310)

<http://hdl.handle.net/11104/0265444>

**Juřík, T. - Podešva, Pavel - Farka, Z. - Kovář, D. - Skládal, P. - Foret, František**

Nanostructured gold deposited in gelatin template applied for electrochemical assay of glucose in serum.

*Electrochimica acta.* Roč. 188, JAN (2016), s. 277-285 ISSN 0013-4686

Impakt faktor: 4.803, rok: 2015

DOI: [10.1016/j.electacta.2015.12.009](https://doi.org/10.1016/j.electacta.2015.12.009)

<http://hdl.handle.net/11104/0263499>

**Karásek, Pavel - Barwa, Piotr Jan - Kubáň, Pavel - Roth, Michal - Planeta, Josef**

Customization of interior detection segment of fused silica capillary for C4D detection by supercritical water.

*Proceedings of ISC 2016. Symposium Abstract Book.* Apryll M. Stalcup and Jeremy D. Glennon, 2016 - (Glennon, J.; Stalcup, A.). s. 149-149

[ISC 2016. International Symposium on Chromatography /31./ 28.08.2016-01.09.2016, Cork]

<http://hdl.handle.net/11104/0261750>

**Karásek, Pavel - Horká, Marie - Šlais, Karel - Planeta, Josef - Roth, Michal**



Supercritical water as a flexible agent to treat fused silica capillaries for separation methods. *Proceedings of ISC 2016. Symposium Abstract Book*. Apryll M. Stalcup and Jeremy D. Glennon, 2016 - (Glennon, J.; Stalcup, A.). s. 55-55  
[ISC 2016. International Symposium on Chromatography /31./. 28.08.2016-01.09.2016, Cork]  
<http://hdl.handle.net/11104/0261756>

**Klepárník, Karel**

Implementation of nanotechnologies in single-cell analysis.  
*Program and Book of Abstracts*. 2016. s. 77-77.  
[NanoInBio 2016 - International Conference on Nanosciences at the Interface between Materials and Biological Systems. 31.05.2016-05.06.2016, Le Gosier, Guadeloupe]  
<http://hdl.handle.net/11104/0266628>

**Klepárník, Karel - Ledvina, Vojtěch - Janečková, Eva - Matalová, Eva**

Single-cell analysis of active caspase-3/7 in apoptotic and non-apoptotic cells.  
*Congress Workbook*. London, 2016.  
[Single Cell Analysis Congress /4./. 10.11.2016-11.11.2016, London]  
<http://hdl.handle.net/11104/0266618>

**Koenka, I.J. - Küng, N. - Kubáň, Pavel - Chwalek, T. - Furrer, G. - Wehrli, B. - Müller, B. - Hauser, P.C.**

Thermostatted dual-channel portable capillary electrophoresis instrument.  
*Electrophoresis*. Roč. 37, 17-18 (2016), s. 2368-2375 ISSN 0173-0835  
Impakt faktor: 2.482, rok: 2015  
DOI: [10.1002/elps.201600235](https://doi.org/10.1002/elps.201600235)  
<http://hdl.handle.net/11104/0261952>

**Kontro, I. - Svedström, K. - Duša, Filip - Ahvenainen, P. - Ruokonen, S. K. - Witos, J. - Wiedmer, S. K.**

Effects of phosphonium-based ionic liquids on phospholipid membranes studied by small-angle X-ray scattering.  
*Chemistry and Physics of Lipids*. Roč. 201, DEC (2016), s. 59-66 ISSN 0009-3084  
Impakt faktor: 2.901, rok: 2015  
DOI: [10.1016/j.chemphyslip.2016.11.003](https://doi.org/10.1016/j.chemphyslip.2016.11.003)  
<http://hdl.handle.net/11104/0263705>

**Kratzer, Jan - Zelina, Ondřej - Svoboda, Milan - Sturgeon, R. E. - Mester, Z. - Dědina, Jiří**

Atomization of bismuthane in a dielectric barrier discharge: A mechanistic study.  
*Analytical Chemistry*. Roč. 88, č. 3 (2016), s. 1804-1811 ISSN 0003-2700  
Impakt faktor: 5.886, rok: 2015  
DOI: [10.1021/acs.analchem.5b04095](https://doi.org/10.1021/acs.analchem.5b04095)  
<http://hdl.handle.net/11104/0256647>

**Kratzer, Jan - Novák, Petr - Zurynková, Pavla - Duben, Ondřej - Albrecht, Michal - Svoboda, Milan - Dědina, Jiří**

Dielectric barrier discharge plasma atomizers of volatile compounds in atomic absorption spectrometry: Applications, mechanisms and future perspectives.  
*XXIst Slovak-Czech Spectroscopic Conference. Book of abstracts*. Košice: Technická univerzita v Košiciach, 2016 - (Remeteiová, D.; Ružičková, S.). s. 36-36. ISBN 978-80-553-

2636-8.

[Slovak-Czech Spectroscopic Conference /21./ 16.10.2016-20.10.2016, Liptovský Ján,]

<http://hdl.handle.net/11104/0263122>

**Kratzer, Jan - Novák, Petr - Dědina, Jiří**

Plazmový atomizátor s dielektrickou bariérou pro in situ prekoncentraci a následnou atomizaci hydridotvorných prvků.

[Plasma atomizer with dielectric barrier for in situ preconcentration and subsequent atomization of hydride-forming elements.]

2016. Vlastník: Ústav analytické chemie AV ČR, v. v. i. Datum udělení vzoru: 04.07.2016.

Číslo vzoru: 29614

[https://isdv.upv.cz/webapp/webapp.pts.det?xprim=10204803&lan=cs&s\\_majs=&s\\_puvo=Kratzer&s\\_naze=&s\\_anot=](https://isdv.upv.cz/webapp/webapp.pts.det?xprim=10204803&lan=cs&s_majs=&s_puvo=Kratzer&s_naze=&s_anot=)

<http://hdl.handle.net/11104/0260650>

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

Aminopyrene-based multi-positively charged labels for CE/LIF and CE/MS analysis of glycans.

*13th Symposium on the Practical Applications of Mass Spectrometry in the Biotechnology Industry. Abstract Book and Final Program.* CASSS, 2016. s. 1-1.

[Symposium on the Practical Applications of Mass Spectrometry in the Biotechnology Industry /13./ 27.09.2016-30.09.2016, San Diego]

<http://hdl.handle.net/11104/0264090>

**Křenková, Jana - Foret, František**

Analysis of intact proteins using liquid junction CE/MS interface.

*HPLC 2016. Book of Abstracts.* 2016. s. 198-198.

[HPLC 2016. International Symposium on High Performance Liquid Phase Separations and Related Techniques /44./ 19.06.2016-24.06.2016, San Francisco]

<http://hdl.handle.net/11104/0260523>

**Křenková, Jana - Haselberg, R. - Somsen, G. V. - Foret, František**

A novel nanospray liquid junction interface for versatile CE-MS.

*CE in the Biotechnology & Pharmaceutical Industries: 18th Symposium on the Practical Applications for the Analysis of Proteins, Nucleotides and Small Molecules. Abstract Book & Final Program.* CASSS, 2016. s. 1-1.

[CE in the Biotechnology & Pharmaceutical Industries: Symposium on the Practical Applications for the Analysis of Proteins, Nucleotides and Small Molecules /18./ 25.09.2016-28.09.2016, San Diego]

<http://hdl.handle.net/11104/0264088>

**Křenková, Jana - Haselberg, R. - Somsen, G. W. - Foret, František**

A novel nanospray liquid junction interface for versatile CE-MS.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 28-28. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./ Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265739>

**Křenková, Jana - Foret, František**

Liquid junction based CE/MS interfacing for proteomic, glycomic and metabolomic analyses. *HTC-14. Book of Abstracts*. 2016. s. 79-79. ISBN N.

[International Symposium on Hyphenated Techniques in Chromatography and Separation Technology /14./. 27.01.2016-29.01.2016, Ghent]

<http://hdl.handle.net/11104/0256688>

**Křenková, Jana - Morávková, J. - Buk, J. - Foret, František**

Phosphopeptide enrichment with inorganic nanofibers prepared by forcespinning technology. *Journal of Chromatography A*. Roč. 1427, JAN (2016), s. 8-15 ISSN 0021-9673

Impakt faktor: 3.926, rok: 2015

[DOI: 10.1016/j.chroma.2015.12.022](https://doi.org/10.1016/j.chroma.2015.12.022)

<http://hdl.handle.net/11104/0255161>

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

Self-aligning subatmospheric hybrid liquid junction electrospray interface for capillary electrophoresis.

*Electrophoresis*. Roč. 37, č. 3 (2016), s. 414-417 ISSN 0173-0835

Impakt faktor: 2.482, rok: 2015

[DOI: 10.1002/elps.201500357](https://doi.org/10.1002/elps.201500357)

<http://hdl.handle.net/11104/0250907>

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

Synthesis and application of multi-positively charged labels for CE/LIF and CE/MS analysis of glycans.

*HPLC 2016. Book of Abstracts*. 2016. s. 69-69.

[HPLC 2016. International Symposium on High Performance Liquid Phase Separations and Related Techniques /44./. 19.06.2016-24.06.2016, San Francisco]

<http://hdl.handle.net/11104/0260522>

**Křivánková, Jana - Foret, František**

Development of microfluidic device for droplet generation and microparticle encapsulation.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 148-151. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265769>

**Křůmal, Kamil - Mikuška, Pavel - Večeřa, Zbyněk**

Charakterizace organických sloučenin v PM1 aerosolu v Kladně v zimním období 2016.

[Characterization of organic compounds in PM1 aerosol in Kladno in winter 2016.]

*Sborník XVII. výroční konference České aerosolové společnosti*. Praha: Czech Aerosol Society, 2016 - (Mašková, L.), s. 29-32. ISBN 978-80-86186-85-6.

[Výroční konference České aerosolové společnosti /17./. Mikulov (CZ), 25.10.2016-26.10.2016]

<http://hdl.handle.net/11104/0265405>

**Křůmal, Kamil - Mikuška, Pavel - Coufalík, Pavel - Večeřa, Zbyněk**

Organic markers and compounds in PM1 aerosol in small town near Prague (Czech Republic)

in winter 2016.

*EAC 2016. Handbook.* French Society for Aerosol Research (ASFERA), 2016. P2-AAS-AAP-215.

[EAC 2016. European Aerosol Conference /22./. 04.09.2016-09.09.2016, Tours]

<http://hdl.handle.net/11104/0265428>

**Křůmal, Kamil - Mikuška, Pavel - Coufalík, Pavel - Večeřa, Zbyněk**

Organic markers and compounds in PM1 aerosol in small town near Prague (Czech Republic) in winter 2016.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 155-158. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265919>

**Křůmal, Kamil - Mikuška, Pavel - Večeřová, Kristýna - Urban, Otmar - Pallozzi, E. - Večeřa, Zbyněk**

Wet effluent diffusion denuder: The tool for determination of monoterpenes in forest.

*Talanta.* Roč. 153, JUN (2016), s. 260-267 ISSN 0039-9140

Impakt faktor: 4.035, rok: 2015

 DOI: [10.1016/j.talanta.2016.03.032](https://doi.org/10.1016/j.talanta.2016.03.032)

<http://hdl.handle.net/11104/0258599>

**Kubáň, Pavel**

Bezkontaktní vodivostní detektor pro kapilární elektroforézu.

*Akademický bulletin AV ČR.* Roč. 2016, č. 2 (2016), s. 19-19 ISSN 1210-9525

**Kubáň, Pavel - Šlampová, Andrea - Boček, Petr**

Electrically induced microextractions in analyses of complex samples – From fundamentals to applications.

*Sample Treatment 2016. Proceedings Book. 2nd Caparica Christmas Conference on Sample Treatment.* Caparica: Associação Científica Proteomass, 2016 - (Ferreira, P.; Capelo, J.; Lodeiro, C.; Santos, H.). s. 114-114. ISBN 978-989-99639-2-4.

[Caparica Christmas Conference on Sample Treatment /2./. 05.12.2016-07.12.2016, Caparica]

<http://hdl.handle.net/11104/0265524>

**Kubáň, Pavel - Boček, Petr - Seip, K. F. - Gjelstad, A. - Pedersen-Bjergaard, S.**

Micro-electromembrane extraction across multiple aqueous and organic phases for selective pretreatment of raw biological samples.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 158-161. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265923>

**Kubáň, Pavel - Boček, Petr - Seip, K. F. - Gjelstad, A. - Pedersen-Bjergaard, S.**

Micro-electromembrane extraction across multiple organic and aqueous phases. A new tool for selective pretreatment of biological fluids.

*ITP 2016. Final Program.* Minneapolis, 2016.

[International Symposium and Exhibit on Electro- and Liquid Phase Separations Techniques /23./ ITP 2016. 18.09.2016-21.09.2016, Minneapolis]

<https://ep70.eventpilotadmin.com/web/page.php?page=IntHtml&project=SCIX16&id=7926>  
<http://hdl.handle.net/11104/0265243>

**Kubáň, Pavel - Seip, K. F. - Gjelstad, A. - Pedersen-Bjergaard, S.**

Micro-electromembrane extraction using multiple free liquid membranes and acceptor solutions - Towards selective extractions of analytes based on their acid-base strength.

*Analytica Chimica Acta.* Roč. 943, NOV (2016), s. 64-73 ISSN 0003-2670

Impakt faktor: 4.712, rok: 2015

DOI: [10.1016/j.aca.2016.09.022](https://doi.org/10.1016/j.aca.2016.09.022)

<http://hdl.handle.net/11104/0263105>

**Kubáň, Pavel - Boček, Petr - Seip, K. F. - Gjelstad, A. - Pedersen-Bjergaard, S.**

Multiple phase micro-electromembrane extractions for selective pretreatment of raw biological samples.

*ExTech 2016 & ISSS 2016. Abstract Book.* Toruń: Nicolaus Copernicus University, 2016 - (Buszewski, B.; Kowalska, J.). s. 280-280

[International Symposium on Advances in Extraction Technologies /18./ & International Symposium on Separation Sciences /22./. 03.07.2016-06.07.2016, Toruń]

<http://hdl.handle.net/11104/0260753>

**Kubáň, Pavel - Boček, Petr**

Simultaneous micro-electromembrane extractions of anions and cations using multiple free liquid membranes and acceptor solutions.

*Analytica Chimica Acta.* Roč. 908, FEB (2016), s. 113-120 ISSN 0003-2670

Impakt faktor: 4.712, rok: 2015

DOI: [10.1016/j.aca.2016.01.007](https://doi.org/10.1016/j.aca.2016.01.007)

<http://hdl.handle.net/11104/0256617>

**Kuboušková, S. - Krmíček, Lukáš - Coufalík, Pavel - Pokorný, R.**

Petrological and geochemical characteristics of Palaeogene low-rank coal on the Faroe Islands: Restricted effects of alteration by basaltic lava flows.

*International Journal of Coal Geology.* Roč. 165, AUG (2016), s. 157-172 ISSN 0166-5162

Impakt faktor: 3.294, rok: 2015

DOI: [10.1016/j.coal.2016.08.009](https://doi.org/10.1016/j.coal.2016.08.009)

<http://hdl.handle.net/11104/0261713>

**Lacina, K. - Žák, J. - Sopoušek, J. - Szabó, Z. - Václavek, Tomáš - Žeravík, J. - Fiala, P. - Skládal, P.**

Transistor amplifier as an electrochemical transducer with intuitive optical read-out: Improving its performance with simple electronic solutions.

*Electrochimica acta.* Roč. 216, OCT (2016), s. 147-151 ISSN 0013-4686

Impakt faktor: 4.803, rok: 2015

DOI: [10.1016/j.electacta.2016.09.028](https://doi.org/10.1016/j.electacta.2016.09.028)

<http://hdl.handle.net/11104/0263218>

**Lačná, J. - Foret, František - Kubáň, Petr**

Novel, versatile capillary electrophoresis instrument with laser induced fluorescence for

analysis of various lipid peroxidation biomarkers.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 163-167. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265912>

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

Subsidiary reagents for improvement of enzymatic digestion protocol.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 167-170. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265770>

**Lebedová, J. - Bláhová, L. - Večeřa, Zbyněk - Mikuška, Pavel - Dočekal, Bohumil - Buchtová, Marcela - Míšek, Ivan - Dumková, J. - Hampl, A. - Hilscherová, K.**

Impact of acute and chronic inhalation exposure to CdO nanoparticles on mice.

*Environmental Science and Pollution Research*. Roč. 23, č. 23 (2016), s. 24047-24060 ISSN 0944-1344

Impakt faktor: 2.760, rok: 2015

 DOI: [10.1007/s11356-016-7600-6](https://doi.org/10.1007/s11356-016-7600-6)

<http://hdl.handle.net/11104/0262219>

**Ledvina, Vojtěch - Klepárník, Karel**

Parallel single-cell analysis of active caspase-3/7 in apoptotic and non-apoptotic cells.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 170-173. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265776>

**Ledvina, Vojtěch - Klepárník, Karel**

Potential of correlative light and electron microscopy for single-cell analysis.

*Congress Workbook*. London, 2016.

[Single Cell Analysis Congress /4./. 10.11.2016-11.11.2016, London]

<http://hdl.handle.net/11104/0266615>

**Machala, M. - Kulich, P. - Šerý, O. - Marvanová, S. - Skoupý, Radim - Rusnák, A. - Mikuška, Pavel - Večeřa, Zbyněk**

The deposition of inhaled titanium nanoparticles in mice organs.

*Toxicology Letters*. Elsevier. Roč. 258, Supplement 16 SEP (2016), S277. ISSN 0378-4274.

[EUROTOX. Congress of the European Societies of Toxicology /52./. 04.09.2016-07.09.2016, Seville]

 DOI: [10.1016/j.toxlet.2016.06.1969](https://doi.org/10.1016/j.toxlet.2016.06.1969)

**Malá, Zdeňka - Gebauer, Petr - Boček, Petr**



Capillary isotachopheresis with ESI-MS detection: Methodology for highly sensitive analysis of ibuprofen and diclofenac in waters.

*Analytica Chimica Acta*. Roč. 907, FEB (2016), s. 1-6 ISSN 0003-2670

Impakt faktor: 4.712, rok: 2015

DOI: [10.1016/j.aca.2015.11.040](https://doi.org/10.1016/j.aca.2015.11.040)

<http://hdl.handle.net/11104/0256621>

**Malá, Zdeňka - Gebauer, Petr - Boček, Petr**

Highly sensitive analysis of chlorophenols and sulfonamides in waters by electrophoretic focusing on inverse electromigration dispersion gradient with ESI-MS detection.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 184-186. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265922>

**Malá, Zdeňka - Gebauer, Petr - Boček, Petr**

New methodology for capillary electrophoresis with ESI-MS detection: Electrophoretic focusing on inverse electromigration dispersion gradient. High-sensitivity analysis of sulfonamides in waters.

*Analytica Chimica Acta*. Roč. 935, SEP (2016), s. 249-257 ISSN 0003-2670

Impakt faktor: 4.712, rok: 2015

DOI: [10.1016/j.aca.2016.06.016](https://doi.org/10.1016/j.aca.2016.06.016)

<http://hdl.handle.net/11104/0260827>

**Malá, Zdeňka - Gebauer, Petr - Boček, Petr**

New methodology for capillary electrophoresis with ESI-MS detection: Electrophoretic focusing on inverse electromigration dispersion gradient for high sensitivity analysis of sulfonamides in waters.

*Abstract book 40th ISCC and 13th GC×GC Symposium*. Messina: Chromaleont S.r.L, 2016 - (Mondello, L.; Dugo, P.). s. 270-270. ISBN 978-88-941816-0-9.

[ISCC /40./ and GC×GC Symposium /13./. 29.05.2016-03.06.2016, Riva del Garda]

<http://hdl.handle.net/11104/0260097>

**Marschner, Karel - Musil, Stanislav - Dědina, Jiří**

Achieving 100% Efficient Postcolumn Hydride Generation for As Speciation Analysis by Atomic Fluorescence Spectrometry.

*Analytical Chemistry*. Roč. 88, č. 7 (2016), s. 4041-4047 ISSN 0003-2700

Impakt faktor: 5.886, rok: 2015

DOI: [10.1021/acs.analchem.6b00370](https://doi.org/10.1021/acs.analchem.6b00370)

<http://hdl.handle.net/11104/0258917>

**Marschner, Karel - Musil, Stanislav - Rychlovský, P. - Dědina, Jiří**

Arsenic speciation by hydride generation coupled with atomic fluorescence spectrometry.

*Proceedings of the 12th International Students Conference*. Prague: Charles University in Prague, Faculty of Science, 2016 - (Nesměrák, K.), s. 31-36. ISBN 978-80-7444-044-1.

[International Students Conference "Modern Analytical Chemistry" /12./. Prague (CZ), 22.09.2016-23.09.2016]

<http://hdl.handle.net/11104/0263405>

**Marschner, Karel - Musil, Stanislav - Dědina, Jiří**

Demethylation of methylated arsenic species during generation of arsanes with tetrahydridoborate(1-) in acidic media.

*Analytical Chemistry*. Roč. 88, č. 12 (2016), s. 6366-6373 ISSN 0003-2700

Impakt faktor: 5.886, rok: 2015

DOI: [10.1021/acs.analchem.6b00735](https://doi.org/10.1021/acs.analchem.6b00735)

<http://hdl.handle.net/11104/0260377>

**Marschner, Karel - Musil, Stanislav - Rychlovský, P. - Dědina, Jiří**

Hydride generation of 'arsenosugars' from algae samples.

*TraceSpec 2016. Book of abstracts*. Gdansk: Gdańsk University of Technology, 2016. s. 100-100. ISBN 978-83-62984-36-7.

[TraceSpec 2016. Workshop on Progress in Trace Metal Speciation for Environmental Analytical Chemistry /15./ 04.09.2016-07.09.2016, Gdansk]

<http://hdl.handle.net/11104/0261913>

**Martínez-Acuña, M. I. - Mejía-Saavedra, J. J. - Sánchez-Peña, L. C. - Matoušek, Tomáš - Del Razo, L. M. - Alegría-Torres, J. A.**

Mitochondrial DNA copy number in Mexican children coexposed to inorganic arsenic and fluoride from Zacatecas, Mexico.

*Toxicology Letters*. Elsevier. 259S, OCT (2016), S126-S126. ISSN 0378-4274.

[International Congress of Toxicology /14./ 02.10.2016-06.10.2016, Merida]

DOI: [10.1016/j.toxlet.2016.07.324](https://doi.org/10.1016/j.toxlet.2016.07.324)

<http://hdl.handle.net/11104/0265446>

**Matoušek, Tomáš - Kratzer, Jan - Musil, Stanislav - Garnet, Mc. R. - Mester, Z.**

Hydride generation with cryotrapping: DART-MS study of methylated arsanes and ICP-MS analysis of trace arsenic species in water reference materials.

*European Symposium on Atomic Spectrometry ESAS 2016. Book of Abstracts*. Hungarian Chemical Society, 2016 - (Mihucz, V.). s. 162. ISBN 978-963-9970-65-6.

[European Symposium on Atomic Spectrometry /ESAS 2016/ & Hungarian Spectrochemical Conference /59./ 31.03.2016-02.04.2016, Eger]

<http://hdl.handle.net/11104/0258910>

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

Determination of dicarboxylic acids in atmospheric aerosols using aerosol collector.

*Ochrana ovzdušia 2016. Zborník*. Vol. prvé. Kongres STUDIO, spol. s r.o., 2016 - (Mačala, J.), s. 210-213. ISBN 978-80-89565-28-3.

[Ochrana ovzdušia. Štrbské Pleso (SK), 21.11.2016-23.11.2016]

<http://hdl.handle.net/11104/0265461>

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

Determination of dicarboxylic acids in atmospheric aerosols using continuous Aerosol Counterflow Two-Jets Unit.

*EAC 2016. Handbook*. French Society for Aerosol Research (ASFERA), 2016. P3-BAP-AC-003.

[EAC 2016. European Aerosol Conference /22./ 04.09.2016-09.09.2016, Tours]

<http://hdl.handle.net/11104/0265430>

**Mikuška, Pavel - Coufalík, Pavel - Čmelík, Richard**

Determination of levoglucosan in atmospheric aerosols using continuous aerosol collector. *Ochrana ovzdušia 2016. Zborník*. Vol. prvé. Kongres STUDIO, spol. s r.o., 2016 - (Mačala, J.), s. 207-209. ISBN 978-80-89565-28-3.

[Ochrana ovzdušia. Štrbské Pleso (SK), 21.11.2016-23.11.2016]

<http://hdl.handle.net/11104/0265454>

**Mikuška, Pavel - Líšková, A. - Čapka, Lukáš - Kuricová, M. - Rollerová, E. - Křůmal, Kamil - Wsólková, L. - Coufalík, Pavel - Aláčová, R. - Dušinská, M. - Večeřa, Zbyněk - Dočekal, Bohumil - Tulinská, J.**

Immunotoxicity of lead and cadmium nanoparticles in mice exposed by inhalation.

*11. th International Particle Toxicology Conference. Book of Abstracts*. 2016. s. 126-126.

[International Particle Toxicology Conference /11./. 26.09.2016-30.09.2016, Singapore]

<http://hdl.handle.net/11104/0265419>

**Mikuška, Pavel - Večeřa, Zbyněk - Buchtová, Marcela - Dumková, J. - Vrlíková, Lucie - Putnová, Barbora - Dočekal, Bohumil - Čapka, Lukáš - Coufalík, Pavel - Křůmal, Kamil - Fictum, P. - Hampl, A.**

Intracellular fate of inhaled cadmium oxide nanoparticles and their effect on target organs of mice.

*11. th International Particle Toxicology Conference. Book of Abstracts*. 2016. s. 124-124.

[International Particle Toxicology Conference /11./. 26.09.2016-30.09.2016, Singapore]

<http://hdl.handle.net/11104/0265415>

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

Zvýšení účinnosti kontinuálního aerosolového vzorkovače.

[Increase of efficiency of continuous aerosol sampler.]

*Sborník XVII. výroční konference České aerosolové společnosti*. Praha: Czech Aerosol Society, 2016 - (Mašková, L.), s. 75-76. ISBN 978-80-86186-85-6.

[Výroční konference České aerosolové společnosti /17./. Mikulov (CZ), 25.10.2016-26.10.2016]

<http://hdl.handle.net/11104/0265409>

**Milichovský, M. - Večeřa, Zbyněk - Neuvirt, J.**

Metodika aplikace esenciálních olejů a jejich složek k dosažení fungistického účinku v depozitářích papírových artefaktů ohrožených mikrobiálním napadením vlivem vysoké relativní vlhkosti.

[Methodology of application of essential oils and their components to achieve fungistatic effect in depositories paper artifacts endangered by microbial attack due to high relative humidity.]

Interní kód: MK-S 530/2011 OVV ; 2016

Technické parametry: Metodika uvádí zásady a postupy použití plynné fáze esenciálních olejů a jejich složek při ochraně papírových artefaktů v depozitářích s nevhodně zvýšenou relativní vlhkostí. Názorně dokládá fungistický účinek použitých složek esenciálních olejů při dlouhodobém provlhčení a namočení knih.

Ekonomické parametry: zlepšení ochrany archívních materiálů

Certifikační orgán: Ministerstvo kultury, Maltézské náměstí 1, Praha 1. Datum certifikace: 25.01.2016

<http://hdl.handle.net/11104/0256690>

**Moravcová, Dana - Rantamäki, A. H. - Duša, Filip - Wiedmer, S. K.**

Monoliths in capillary electrochromatography and capillary liquid chromatography in conjunction with mass spectrometry.

*Electrophoresis*. Roč. 37, 7-8 (2016), s. 880-912 ISSN 0173-0835

Impakt faktor: 2.482, rok: 2015

[DOI: 10.1002/elps.201500520](https://doi.org/10.1002/elps.201500520)

<http://hdl.handle.net/11104/0260684>

**Moravcová, Dana - Planeta, Josef - Roth, Michal**

Separation of amino acids and small peptides by silica-based monolithic capillary columns.

*Proceedings of ISC 2016. Symposium Abstract Book*. Apryll M. Stalcup and Jeremy D.

Glennon, 2016 - (Glennon, J.; Stalcup, A.). S.160-160

[ISC 2016. International Symposium on Chromatography /31./. 28.08.2016-01.09.2016, Cork]

<http://hdl.handle.net/11104/0261753>

**Musil, Stanislav - Marschner, Karel - Dědina, Jiří**

Hydride generation and atomic fluorescence spectrometry as a sensitive tool for speciation analysis of arsenic.

*TraceSpec 2016. Book of abstracts*. Gdansk: Gdańsk University of Technology, 2016. s. 12-12. ISBN 978-83-62984-36-7.

[TraceSpec 2016. Workshop on Progress in Trace Metal Speciation for Environmental Analytical Chemistry /15./. 04.09.2016-07.09.2016, Gdansk]

<http://hdl.handle.net/11104/0261914>

**Novák, Petr - Dědina, Jiří - Kratzer, Jan**

Preconcentration and atomization of arsane in a dielectric barrier discharge with detection by atomic absorption spectrometry.

*Analytical Chemistry*. Roč. 88, č. 11 (2016), s. 6064-6070 ISSN 0003-2700

Impakt faktor: 5.886, rok: 2015

[DOI: 10.1021/acs.analchem.6b01365](https://doi.org/10.1021/acs.analchem.6b01365)

<http://hdl.handle.net/11104/0260060>

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

Prototyping of a simple device for parallel dot blotting using CNC machining.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 196-198. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265925>

**Partyka, Jan - Křenková, Jana - Foret, František**

Hexahistidine labeling of oligosaccharides.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 200-202. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265924>

**Pařil, P. - Baar, J. - Dejmal, A. - Foret, Frantiřek - Křenková, Jana**

Způsob ošetření a barvení dřeva obsahujícího třísloviny.

[Method of treating and dyeing of wood containing tanning products.]

2016. Vlastník: Mendelova univerzita v Brně, Zemědělská 1/665, 61300 Brno; Ústav analytické chemie AV ČR, v. v. i., Veverří 97, 60200 Brno. Datum udělení patentu: 14.09.2016. Číslo patentu: 306249

<http://spisy.upv.cz/Patents/FullDocuments/306/306249.pdf>

**Petry-Podgorska, Inga - Balcarová, B. - Matoušek, Tomáš**

Fast synthesis and separation of the arsenoglutathione complexes.

*Czech Chemical Society Symposium Series*. Roč. 14, č. 5 (2016), s. 192-192 ISSN 2336-7202.

[Sjezd chemických společností /68./ 04.09.2016-07.09.2016, Praha]

<http://hdl.handle.net/11104/0261915>

**Planeta, Josef - Karásek, Pavel - Moravcová, Dana - Roth, Michal**

Hybrid monolithic materials synthesized from tetramethoxysilane and 1,2-bis(trimethoxysilyl)ethane and their use in capillary liquid chromatography.

*Proceedings of ISC 2016. Symposium Abstract Book*. Apryll M. Stalcup and Jeremy D.

Glennon, 2016 - (Glennon, J.; Stalcup, A.). s. 148-149

[ISC 2016. International Symposium on Chromatography /31./ 28.08.2016-01.09.2016, Cork]

<http://hdl.handle.net/11104/0261755>

**Podeřva, Pavel - Foret, Frantiřek**

Metal nano-film resistivity chemical sensor.

*Electrophoresis*. Roč. 37, č. 3 (2016), s. 392-397 ISSN 0173-0835

Impakt faktor: 2.482, rok: 2015

[DOI: 10.1002/elps.201500190](https://doi.org/10.1002/elps.201500190)

<http://hdl.handle.net/11104/0250752>

**Přikryl, Jan - Týčová, Anna - Foret, Frantiřek**

Grinding device: nanoES tips fabrication.

*Book of Abstracts. 27 th MassSpec Forum Vienna*. University of Vienna: Austrian Society of Analytical Chemistry, 2016. s. 50-50.

[MassSpec Forum Vienna /27./ 23.02.2016-24.02.2016, Vienna]

<http://hdl.handle.net/11104/0265225>

**Roth, Michal**

Partition coefficients of organics between water and carbon dioxide revisited: Correlation with solute molecular descriptors and solvent cohesive properties.

*Environmental Science and Technology*. Roč. 50, OCT (2016), s. 12857-12863 ISSN 0013-936X

Impakt faktor: 5.393, rok: 2015

[DOI: 10.1021/acs.est.6b03210](https://doi.org/10.1021/acs.est.6b03210)

**Růžička, F. - Horká, Marie - Holá, V. - Mlynaríková, K. - Dráb, V.**

Capillary isoelectric focusing-useful tool for detection and quantification of lactic acid bacteria in milk.

*Food Analytical Methods*. Roč. 9, č. 12 (2016), s. 3251-3257 ISSN 1936-9751

Impakt faktor: 2.167, rok: 2015

[DOI: 10.1007/s12161-016-0522-6](https://doi.org/10.1007/s12161-016-0522-6)

<http://hdl.handle.net/11104/0263158>

**Rybínová, M. - Musil, Stanislav - Červený, J. - Vobecký, Miloslav - Rychlovský, P.**

UV-photochemical vapor generation of selenium for atomic absorption spectrometry: Optimization and <sup>75</sup>Se radiotracer efficiency study.

*Spectrochimica Acta Part B: Atomic Spectroscopy*. Roč. 123, SEP (2016), s. 134-142 ISSN 0584-8547

Impakt faktor: 3.289, rok: 2015

DOI: [10.1016/j.sab.2016.08.009](https://doi.org/10.1016/j.sab.2016.08.009)

<http://hdl.handle.net/11104/0261306>

**Silva, M. - Mendiguchía, c. - Moreno, C. - Kubáň, Pavel**

Electromembrane Extraction of Trace Metals in Saline Waters: Effects of major inorganic cations.

*Sample Treatment 2016. Proceedings Book. 2nd Caparica Christmas Conference on Sample Treatment*. Caparica: Associação Científica Proteomass, 2016 - (Ferreira, P.; Capelo, J.; Lodeiro, C.; Santos, H.). s. 95-95. ISBN 978-989-99639-2-4.

[Caparica Christmas Conference on Sample Treatment /2./ 05.12.2016-07.12.2016, Caparica]

<http://hdl.handle.net/11104/0265521>

**Svoboda, Milan - Šindelářová, V. - Kratzer, Jan - Michels, A. - Franzke, J. - Hraníček, J. - Dědina, Jiří**

Nové atomizátory těkavých specií založené na dielektrickém bariérovém výboji pro AAS a AFS.

[Novel designs of dielectric barrier discharge atomizers of volatile compounds for AAS and AFS.]

*Czech Chemical Society Symposium Series*. Roč. 14, č. 5 (2016), s. 191-191 ISSN 2336-7202.

[Sjezd chemických společností /68./ 04.09.2016-07.09.2016, Praha]

<http://hdl.handle.net/11104/0261791>

**Svoboda, Milan - Kratzer, Jan - Šindelářová, V. - Straka, M. - Hraníček, J. - Michels, A. - Franzke, J. - Dědina, Jiří**

Novel designs of dielectric barrier discharge atomizers of volatile compounds for AAS and AFS.

*XXIst Slovak-Czech Spectroscopic Conference. Book of abstracts*. Košice: Technická univerzita v Košiciach, 2016 - (Remeteiová, D.; Ružičková, S.). s. 85-85. ISBN 978-80-553-2636-8.

[Slovak-Czech Spectroscopic Conference /21./ 16.10.2016-20.10.2016, Liptovský Ján,]

<http://hdl.handle.net/11104/0263223>

**Száková, J. - Havlíčková, J. - Šípková, A. - Gabriel, Jiří - Švec, Karel - Baldrian, Petr - Sysalová, J. - Coufalík, Pavel - Červenka, R. - Zvěřina, O. - Komárek, J. - Tlustoš, P.**

Effects of the soil microbial community on mobile proportions and speciation of mercury (Hg) in contaminated soil.

*Journal of Environmental Science and Health Part A-Toxic/Hazardous Substances & Environmental Engineering*. Roč. 51, č. 4 (2016), s. 364-370 ISSN 1093-4529

Impakt faktor: 1.276, rok: 2015

DOI: [10.1080/10934529.2015.1109413](https://doi.org/10.1080/10934529.2015.1109413)

**Šišková, P. - Krmíček, Lukáš - Coufalík, Pavel**



Geochemistry of Cenozoic volcanic rocks of the Faroe Islands with a focus on their ultra-trace contents of Hg.

*Proceedings: Students in Polar and Alpine Research Conference 2016.* Brno: Department of Geography, Faculty of Science, Masaryk University, 2016 - (Hrbáček, F.; Ondruch, J.; Ambrožová, K.; Ondráčková, L.; Nývlt, D.), s. 41-42. ISBN 9788021082038.

[Students in Polar and Alpine Research Conference 2016. 25.04.2016-27.04.2016, Brno]

[https://www.researchgate.net/publication/301822528\\_Geochemistry\\_of\\_Cenozoic\\_volcanic\\_rocks\\_of\\_the\\_Faroe\\_Islands\\_with\\_a\\_focus\\_on\\_their\\_ultratracer\\_contents\\_of\\_Hg](https://www.researchgate.net/publication/301822528_Geochemistry_of_Cenozoic_volcanic_rocks_of_the_Faroe_Islands_with_a_focus_on_their_ultratracer_contents_of_Hg)

**Šišková, P. - Krmíček, Lukáš - Coufalík, Pavel**

Geochemistry of Cenozoic volcanic rocks of the Faroe Islands with a focus on their ultra-trace contents of Hg.

*Proceedings: Students in Polar and Alpine Research Conference 2016.* Brno: Department of Geography, Faculty of Science, Masaryk University, 2016 - (Hrbáček, F.; Ondruch, J.; Ambrožová, K.; Ondráčková, L.; Nývlt, D.), s. 41-42. ISBN 9788021082038.

[Students in Polar and Alpine Research Conference 2016. Brno (CZ), 25.04.2016-27.04.2016]

<http://hdl.handle.net/11104/0259478>

**Šlampová, Andrea - Kubáň, Pavel - Boček, Petr**

Additional considerations on electrolysis in electromembrane extraction.

*Journal of Chromatography A.* Roč. 1429, JAN (2016), s. 364-368 ISSN 0021-9673

Impakt faktor: 3.926, rok: 2015

[DOI: 10.1016/j.chroma.2015.12.028](https://doi.org/10.1016/j.chroma.2015.12.028)

<http://hdl.handle.net/11104/0255105>

**Šlampová, Andrea - Kubáň, Pavel**

Capillary electrophoresis with contactless conductivity detection for rapid determination of meldonium in urine.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 234-236. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265921>

**Šlampová, Andrea - Kubáň, Pavel**

Rapid determination of meldonium in urine samples by capillary electrophoresis with capacitively coupled contactless conductivity detection.

*Journal of Chromatography A.* Roč. 1468, OCT (2016), s. 236-240 ISSN 0021-9673

Impakt faktor: 3.926, rok: 2015

[DOI: 10.1016/j.chroma.2016.09.027](https://doi.org/10.1016/j.chroma.2016.09.027)

<http://hdl.handle.net/11104/0262645>


**Tesařová, Marie - Horká, Marie - Moravcová, Dana - Svojanovská, Lenka - Mlynáriková, K. - Růžička, F.**

SDS-PAGE and gel IEF – tool for differentiation of methicillin-resistant and methicillin-sensitive strains of *Staphylococcus aureus*.

*Current Microbiology.* Roč. 72, č. 3 (2016), s. 315-320 ISSN 0343-8651

Impakt faktor: 1.519, rok: 2015

<http://hdl.handle.net/11104/0251069>

 [DOI: 10.1007/s00284-015-0939-y](https://doi.org/10.1007/s00284-015-0939-y)  
<http://hdl.handle.net/11104/0251069>

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

MALDI-TOF/TOF analysis of protein composition of human ER positive and ER negative breast cancer cells: Comparative study/evaluation.

*Zborník abstraktov zo XIV. mezinárodnej konferencie Súčasný stav a perspektívy analytickej chémie v praxi.* Bratislava: Slovenská technická univerzita v Bratislave, 2016, s. 1-2. ISBN 978-80-227-4556-7.

[ACP 2016. Medzinárodná konferencia Súčasný stav a perspektívy analytickej chémie v praxi /XIV./. Bratislava (SK), 03.05.2016-06.05.2016]

<http://hdl.handle.net/11104/0259830>

**Týčová, Anna**

Analysis of biologically important substances by capillary electrophoresis coupled with mass spectrometry.

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Masarykova univerzita Brno. 12.09.2016. - Brno: Masarykova univerzita, 2016. 88 s.

 [http://is.muni.cz/th/364281/prif\\_d/Tycova\\_Thesis\\_Hidden.pdf](http://is.muni.cz/th/364281/prif_d/Tycova_Thesis_Hidden.pdf)

<http://hdl.handle.net/11104/0264594>

**Týčová, Anna - Foret, František**

CE-nESI/MS in electrode-free design: narrowing the separation channel to 5  $\mu\text{m}$ .

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis.* Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 261-265. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265752>

**Týčová, Anna - Vido, M. - Kovaříková, P. - Foret, František**

Interface-free capillary electrophoresis-mass spectrometry system with nanospray ionization—Analysis of dexrazoxane in blood plasma Anna.

*Journal of Chromatography A.* Roč. 1466, SEP (2016), s. 173-179 ISSN 0021-9673

Impakt faktor: 3.926, rok: 2015

 [DOI: 10.1016/j.chroma.2016.08.042](https://doi.org/10.1016/j.chroma.2016.08.042)

<http://hdl.handle.net/11104/0263578>

**Týčová, Anna - Příkryl, Jan - Kovaříková, P. - Foret, František**

Novel CE-nanoESI/MS interface for quick analysis of dexrazoxane from blood plasma.

*Conference Program. MSB 2016.* 2016. ISBN N.

[International Symposium on Microscale Separations and Bioanalysis /32./. 03.04.2016-07.04.2016, Niagara on the Lake]

<http://hdl.handle.net/11104/0260995>

**Týčová, Anna - Příkryl, Jan - Foret, František**

Reproducible preparation of nanospray tips for capillary electrophoresis coupled to mass spectrometry using 3D printed grinding device.

*Electrophoresis.* Roč. 37, 7-8 (2016), s. 924-930 ISSN 0173-0835

Impakt faktor: 2.482, rok: 2015

 DOI: [10.1002/elps.201500467](https://doi.org/10.1002/elps.201500467)

<http://hdl.handle.net/11104/0254592>

**Týčová, Anna - Foret, František**

Trends in CE-MS and its applications.

*Analytical Separation Science*. Weinheim: Wiley-VCH, 2016 - (Anderson, J.; Berthod, A.; Pino, V.; Stalcup, A.), s. 629-651. ISBN 978-3-527-33374-5

<http://hdl.handle.net/11104/0251062>

**Uher, A. - Coufalík, Pavel - Zvěřina, O. - Ticová, B. - Novotný, K. - Komárek, J.**

Background concentrations of metals in regolith near J. G. Mendel Czech Antarctic Station. *Proceedings: Students in Polar and Alpine Research Conference 2016*. Brno: Department of Geography, Faculty of Science, Masaryk University, 2016 - (Hrbáček, F.; Ondruch, J.; Ambrožová, K.; Ondráčková, L.; Nývlt, D.). s. 43-43. ISBN 9788021082038.

[Students in Polar and Alpine Research Conference 2016. 25.04.2016-27.04.2016, Brno]

<http://hdl.handle.net/11104/0259550>

**Václavek, Tomáš - Křenková, Jana - Foret, František**

Microfluidic device for cell counting and characterization.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 265-267. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265757>

**Večeřová, Kristýna - Mikuška, Pavel - Oravec, Michal - Kozáčiková, Michaela - Pompeiano, Antonio - Coufalík, Pavel - Urban, Otmar**

Combined effect of temperature and CdO nanoparticles treatment on *Picea abies*.

*CECE 2016. 13th International Interdisciplinary Meeting on Bioanalysis*. Brno: Ústav analytické chemie AV ČR, v. v. i., 2016 - (Foret, F.; Křenková, J.; Drobníková, I.; Klepárník, K.), s. 269-272. ISBN 978-80-904959-4-4.

[CECE 2016. International Interdisciplinary Meeting on Bioanalysis /13./. Brno (CZ), 17.10.2016-19.10.2016]

<http://hdl.handle.net/11104/0265917>

**Večeřová, Kristýna - Večeřa, Zbyněk - Dočekal, Bohumil - Oravec, Michal - Pompeiano, Antonio - Tříška, Jan - Urban, Otmar**

Changes of primary and secondary metabolites in barley plants exposed to CdO nanoparticles.

*Environmental Pollution*. Roč. 218 (2016), s. 207-218 ISSN 0269-7491

Impakt faktor: 4.839, rok: 2015

**Vyhnanovský, Jaromír**

Generování těkavých specií palladia pro atomovou absorpční spektrometrii. Bakalářská práce. [Generation of volatile species of palladium for atomic absorption spectrometry.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha. 06.06.2016. - Praha: Univerzita Karlova v Praze, 2016. 42 s.

<http://hdl.handle.net/11104/0260050>

**Waldmannová, E. - Caisová, V. - Fáberová, J. - Sváčková, P. - Kovářová, M. - Sváčková, D. - Kumžáková, Z. - Jačková, A. - Vácová, N. - Nedbalová, P. - Horká, Marie - Kopecký, Jan - Ženka, J.**

The use of Zymosan A and bacteria anchored to tumor cells for effective cancer immunotherapy: B16-F10 murine melanoma model.

*International Immunopharmacology*. Roč. 39, OCT (2016), s. 295-306 ISSN 1567-5769

Impakt faktor: 2.551, rok: 2015

[DOI: 10.1016/j.intimp.2016.08.004](https://doi.org/10.1016/j.intimp.2016.08.004)

<http://hdl.handle.net/11104/0261196>

**Wald, Tomáš - Osičková, Adriana - Mašín, Jiří - Matyska Lišková, Petra - Petry-Podgorska, Inga - Matoušek, Tomáš - Šebo, Peter - Osička, Radim**

Transmembrane segments of complement receptor 3 do not participate in cytotoxic activities but determine receptor structure required for action of Bordetella adenylate cyclase toxin.

*Pathogens and Disease*. Roč. 74, č. 3 (2016), flw008 ISSN 2049-632X

Impakt faktor: 2.483, rok: 2015

[DOI: 10.1093/femspd/ftw008](https://doi.org/10.1093/femspd/ftw008)

**Zurynková, Pavla**

HG-AAS s atomizací v plazmovém výboji s dielektrickou bariérou: optimalizace metody a analytické aplikace. Diplomová práce.

[HG-AAS with atomization in a dielectric barrier plasma discharge: method optimization and analytical applications.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Praha. 01.06.2016. - Praha: Univerzita Karlova v Praze, 2016. 62 s.

<http://hdl.handle.net/11104/0260262>

**Zvěřina, O. - Coufalík, Pavel - Brat, K. - Červenka, R. - Kuta, J. - Mikeš, O. - Komárek, J.**

Seal remains as sources of mercury for Antarctic environment.

*Proceedings: Students in Polar and Alpine Research Conference 2016*. Brno: Department of Geography, Faculty of Science, Masaryk University, 2016 - (Hrbáček, F.; Ondruch, J.; Ambrožová, K.; Ondráčková, L.; Nývlt, D.). s. 59-59. ISBN 9788021082038.

[Students in Polar and Alpine Research Conference 2016. 25.04.2016-27.04.2016, Brno]

<http://hdl.handle.net/11104/0259549>

**Ždímal, Vladimír - Mikuška, Pavel - Moravec, Pavel - Mašková, Ludmila (ed.)**

Výroční konference České aerosolové společnosti /17./.

[Annual Conference of the Czech Aerosol Society /17./.]

[Mikulov, 25.10.2016-26.10.2016, (K-EUR 51/7)]

<http://hdl.handle.net/11104/0263363>

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