

Publikace vydané v roce 2018

Stav ke dni: 29. 6. 2018

**Bufková, K. - Matoušek, Tomáš - Musil, Stanislav - Dědina, Jiří**

Hydride generation of tellurium for AAS and AFS.

*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts.* Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 103-103.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./ 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284240>**Burhenn, S. - Kratzer, Jan - Svoboda, Milan - Klute, F. D. - Michels, A. - Veža, D. - Franzke, J.**

Spatially and temporally resolved detection of arsenic in a capillary dielectric barrier discharge by hydride generation high-resolved optical emission spectrometry.

*Analytical Chemistry.* Roč. 90, MAR (2018), s. 3424-3429 ISSN 0003-2700

Obor OECD: Analytical chemistry

Impakt faktor: 6.320, rok: 2016

DOI: [10.1021/acs.analchem.7b05072](https://doi.org/10.1021/acs.analchem.7b05072)<http://hdl.handle.net/11104/0282247>**Coufalík, Pavel - Meszarosová, N. - Coufalíková, K. - Zvěřina, O. - Komárek, J.**

Determination of methylmercury in cryptogams by means of GC-AFS using enzymatic hydrolysis.

*Microchemical Journal.* Roč. 140 (2018), s. 8-13 ISSN 0026-265X

Obor OECD: Analytical chemistry

Impakt faktor: 3.034, rok: 2016

DOI: [10.1016/j.microc.2018.03.040](https://doi.org/10.1016/j.microc.2018.03.040)<http://hdl.handle.net/11104/0283362>**Čampulová, M. - Michálek, J. - Mikuška, Pavel - Bokal, D.**

Nonparametric algorithm for identification of outliers in environmental data.

*Journal of Chemometrics.* Roč. 32, č. 5 (2018), s. 1-17, č. článku e2997. ISSN 0886-9383

Obor OECD: Analytical chemistry

Impakt faktor: 1.884, rok: 2016

DOI: [10.1002/cem.2997](https://doi.org/10.1002/cem.2997)<http://hdl.handle.net/11104/0284297>**Čapka, Lukáš - Mikuška, Pavel - Šesták, Jozef**

Multiaplikační zařízení pro vzorkování a dávkování kapalných vzorků.

[A multiapplication device for sampling and dosing of liquid samples.]

*Chemické listy.* Roč. 112, č. 3 (2018), s. 196-200 ISSN 0009-2770

Obor OECD: Analytical chemistry

Impakt faktor: 0.387, rok: 2016

<http://hdl.handle.net/11104/0275696>

**Černíková, A. - Bobál, P. - Bobálová, Janette - Dohnal, J. - Jampílek, J.**

Investigation of permeation of acyclovir through skin using alaptide.

*Acta Chromatographica*. Roč. 30, č. 1 (2018), s. 62-65 ISSN 1233-2356

Obor OECD: Analytical chemistry

Impakt faktor: 0.755, rok: 2016

DOI: [10.1556/1326.2017.00242](https://doi.org/10.1556/1326.2017.00242)

<http://hdl.handle.net/11104/0274866>

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

Synthesis of new fluorescent tags for efficient glycan analysis.

*Book of abstracts. 24th International Symposium on Separation Sciences (ISSS 2018)*.

Bratislava: Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius

University in Bratislava, 2018 - (Hutta, M.; Bodor, R.; Halko, R.). s. 160-160. ISBN 978-80-971179-8-6.

[International Symposium on Separation Sciences /24./ - ISSS 2018, International Conference Analytical Methods and Human Health /21./ - AMHH 2018. 17.06.2018-20.06.2018, Jasná]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284821>

**Datinská, Vladimíra - Voráčová, Ivona - Schlecht, U. - Berka, J. - Foret, František**

Recent progress in nucleic acids isotachopheresis.

*Journal of Separation Science*. Roč. 41, č. 1 (2018), s. 236-247 ISSN 1615-9306

Obor OECD: Analytical chemistry

Impakt faktor: 2.557, rok: 2016

DOI: [10.1002/jssc.201700878](https://doi.org/10.1002/jssc.201700878)

<http://hdl.handle.net/11104/0275784>

**Datinská, Vladimíra - Voráčová, Ivona - Berka, J. - Foret, František**

Preparative concentration of nucleic acids fragments by capillary isotachopheretic analyzer.

*Journal of Chromatography A*. Roč. 1548, MAY (2018), s. 100-103 ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 3.981, rok: 2016

DOI: [10.1016/j.chroma.2018.03.021](https://doi.org/10.1016/j.chroma.2018.03.021)

<http://hdl.handle.net/11104/0283100>

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

Capillary electrophoresis, a method for the determination of nucleic acid ligands covalently attached to quantum dots representing a donor of Förster resonance energy transfer.

*Journal of Separation Science*. (2018) ISSN 1615-9306

Obor OECD: Analytical chemistry

Impakt faktor: 2.557, rok: 2016

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

<http://hdl.handle.net/11104/0284149>

**Datinská, Vladimíra**

Analýza významných biologických látek pomocí luminiscenčních senzorů.

[Analysis of biologically relevant substances by luminescence sensors.]

Ústav analytické chemie AV ČR, v. v. i. Obhájeno: Brno. 22.06.2018. - Brno: Masarykova univerzita, 2018. xv, 77

Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0284920>

**Dufka, Michaela - Dočekal, Bohumil**

Characterization of urban particulate matter by diffusive gradients in thin film technique.  
*Journal of Analytical Methods in Chemistry*. (2018), s. 1-8, č. článku 9698710. ISSN 2090-8865

Obor OECD: Analytical chemistry  
 Impakt faktor: 1.801, rok: 2016  
[DOI: 10.1155/2018/9698710](https://doi.org/10.1155/2018/9698710)  
<http://hdl.handle.net/11104/0279719>

**Řurč, P. - Foret, František - Kubáň, Petr**

Fast blood plasma separation device for point-of-care applications.  
*Talanta*. Roč. 183, JUN (2018), s. 55-60 ISSN 0039-9140

Obor OECD: Analytical chemistry  
 Impakt faktor: 4.162, rok: 2016  
[DOI: 10.1016/j.talanta.2018.02.004](https://doi.org/10.1016/j.talanta.2018.02.004)  
<http://hdl.handle.net/11104/0281391>

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

Nanoplasmonic sensing and capillary electrophoresis for fast screening of interactions between phosphatidylcholine biomembranes and surfactants.  
*Langmuir*. Roč. 34, č. 20 (2018), s. 5889-5900 ISSN 0743-7463

Obor OECD: Analytical chemistry  
 Impakt faktor: 3.833, rok: 2016  
[DOI: 10.1021/acs.langmuir.8b01074](https://doi.org/10.1021/acs.langmuir.8b01074)  
<http://hdl.handle.net/11104/0284087>

**Dvořák, Miloš - Seip, K. F. - Pedersen-Bjergaard, S. - Kubáň, Pavel**

Semi-automated set-up for exhaustive micro-electromembrane extractions of basic drugs from biological fluids.

*Analytica Chimica Acta*. Roč. 1005, APR (2018), s. 34-42 ISSN 0003-2670

Obor OECD: Analytical chemistry  
 Impakt faktor: 4.950, rok: 2016  
[DOI: 10.1016/j.aca.2017.11.081](https://doi.org/10.1016/j.aca.2017.11.081)  
<http://hdl.handle.net/11104/0280122>

**Farka, Z. - Čunderlová, V. - Horáčková, V. - Pastucha, M. - Mikušová, Z. - Hlaváček, Antonín - Skládal, P.**

Prussian blue nanoparticles as a catalytic label in a sandwich nanozyme-linked immunosorbent assay.

*Analytical Chemistry*. Roč. 90, č. 3 (2018), s. 2348-2354 ISSN 0003-2700

Obor OECD: Analytical chemistry  
 Impakt faktor: 6.320, rok: 2016  
[DOI: 10.1021/acs.analchem.7b04883](https://doi.org/10.1021/acs.analchem.7b04883)  
<http://hdl.handle.net/11104/0281558>

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

Pre-concentration and separation of bacteria by volume coupling electrophoresis on

supercritical water-etched fused silica capillary with two segments of different internal diameters and inner surface roughnesses.

*Analytical and Bioanalytical Chemistry*. Roč. 410, č. 1 (2018), s. 167-175 ISSN 1618-2642

Obor OECD: Analytical chemistry

Impakt faktor: 3.431, rok: 2016

DOI: [10.1007/s00216-017-0706-y](https://doi.org/10.1007/s00216-017-0706-y)

<http://hdl.handle.net/11104/0276415>

**Horká, Marie - Štveráková, D. - Šalplachta, Jiří - Šlais, Karel - Šiborová, M. - Růžička, F. - Pantůček, R.**

Purification, separation and detection of Kayvirus using electrophoretic techniques.

*Targeting Phage & Antibiotic Resistance 2018. Abstracts Book*. 2018. s. 97-97.

[World Congress on Targeting Infectious Diseases /5./ 17.05.2018-18.05.2018, Florencie]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284118>

**Jarošíková, A. - Ettlér, V. - Mihaljevič, M. - Penížek, V. - Matoušek, Tomáš - Culka, A. - Drahota, P.**

Transformation of arsenic-rich copper smelter flue dust in contrasting soils: A 2-year field experiment.

*Environmental Pollution*. Roč. 237, JUN (2018), s. 83-92 ISSN 0269-7491

Obor OECD: Analytical chemistry

Impakt faktor: 5.099, rok: 2016

DOI: [10.1016/j.envpol.2018.02.028](https://doi.org/10.1016/j.envpol.2018.02.028)

<http://hdl.handle.net/11104/0281775>

**Kahle, Vladislav - Šesták, Jozef**

Taylor-Aris dispersion for generation of binary gradient of mobile phase composition for capillary liquid chromatography.

*42nd International Symposium on Capillary Chromatography and 15 th GC×GC Symposium. Abstract Book*. Messina: Chromaleont S.r.L., 2018 - (Mondello, L.; Dugo, P.). s. 255-255.

ISBN 978-88-941816-1-6.

[ISCC /42./ and GC×GC Symposium /15./ 13.05.2018-18.05.2018, Riva del Garda]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284120>

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

Supercritical water in etching and morphing of siliceous surfaces for analytical separations.

*Book of abstracts and program. Advances in Chromatography and Electrophoresis & Chiranal 2018*. Olomouc: Palacký University Olomouc, 2018 - (Bednář, P.; Cechová, M.; Kučera, L.; Kurka, O.), s. 34-35

[Advances in Chromatography and Electrophoresis & Chiranal 2018. Olomouc (CZ), 29.01.2018-01.02.2018]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0281316>

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

Supercritical water-treated fused silica capillaries in analytical separations: Status review.

*Journal of Chromatography A*. Roč. 1539, MAR (2018), s. 1-11 ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 3.981, rok: 2016

DOI: [10.1016/j.chroma.2018.01.051](https://doi.org/10.1016/j.chroma.2018.01.051)

<http://hdl.handle.net/11104/0281782>

**Komárek, J. - Zelinková, H. - Červenka, R. - Majewski, J. - Coufalík, Pavel - Zvěřina, O.**

Determination of mercury in soil by ETAAS.

*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts.* Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 115-115.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./ 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284365>

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

Trace determination of selenium by hydride generation in-atomizer trapping atomic absorption spectrometry.

*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts.* Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 32-32.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./ 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284255>

**Kratzer, Jan - Musil, Stanislav - Marschner, Karel - Svoboda, Milan - Matoušek, Tomáš - Mester, Z. - Sturgeon, R. E. - Dědina, Jiří**

Behavior of selenium hydride in heated quartz tube and dielectric barrier discharge atomizers. *Analytica Chimica Acta*. Roč. 1028, OCT (2018), s. 11-21 ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 4.950, rok: 2016

DOI: [10.1016/j.aca.2018.05.053](https://doi.org/10.1016/j.aca.2018.05.053)

<http://hdl.handle.net/11104/0284351>

**Křenková, Jana - Foret, František**

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

*Agilent International CE-MS User Meeting.* 2018.

[Agilent International Capillary Electrophoresis – Mass Spectrometry (CE-MS) User Meeting. 16.01.2018-16.01.2018, Utrecht]

<http://hdl.handle.net/11104/0281421>

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

Multi-charged labeling of oligosaccharides and N-linked glycans by hexahistidine-based tags for capillary electrophoresis-mass spectrometry analysis.

*Book of abstracts. 24th International Symposium on Separation Sciences (ISSS 2018).*

Bratislava: Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University in Bratislava, 2018 - (Hutta, M.; Bodor, R.; Halko, R.). s. 76-76. ISBN 978-80-971179-8-6.

[International Symposium on Separation Sciences /24./ - ISSS 2018, International Conference

Analytical Methods and Human Health /21./ - AMHH 2018. 17.06.2018-20.06.2018, Jasná]  
Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0284874>

**Kubáň, Pavel - Šlampová, Andrea - Dvořák, Miloš**

New trends in liquid phase microextraction of biological samples.

*MSB 2018. Program.* Sao Paulo: University of Sao Paulo, 2018 - (Tavares, M.; Carrilho, E.).  
KN4

[MSB2018. International Symposium on Microscale Separations and Bioanalysis /34./.  
18.02.2018-21.02.2018, Rio de Janeiro]

Obor OECD: Analytical chemistry

<https://www.msb2018.org/program/program-in-detail/36-monday-february-19-pre-beach-break-sessions>

<http://hdl.handle.net/11104/0281907>

**Kubáň, Pavel - Hauser, P.C.**

20th anniversary of axial capacitively coupled contactless conductivity detection in capillary electrophoresis.

*Trac-Trends in Analytical Chemistry.* Roč. 102, MAY (2018), s. 311-321 ISSN 0165-9936

Obor OECD: Analytical chemistry

Impakt faktor: 8.442, rok: 2016

DOI: [10.1016/j.trac.2018.03.007](https://doi.org/10.1016/j.trac.2018.03.007)

<http://hdl.handle.net/11104/0283233>

**Kubáň, Petr**

Capillary electrophoresis in clinical diagnosis and monitoring.

*Book of abstracts and program. Advances in Chromatography and Electrophoresis & Chiranal 2018.* Olomouc: Palacký University Olomouc, 2018 - (Bednář, P.; Cechová, M.; Kučera, L.; Kurka, O.), s. 49-50

[Advances in Chromatography and Electrophoresis & Chiranal 2018. Olomouc (CZ),  
29.01.2018-01.02.2018]

<http://hdl.handle.net/11104/0281342>

**Kučera, J. - Peš, O. - Voráčová, Ivona - Táborský, P.**

Enhancement of sensitivity in separation techniques with fluorescence detection using deuterated water.

*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts.* Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 128-128.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./ 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284379>

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

Impact of acute and subchronic inhalation exposure to PbO nanoparticles on mice.

*Nanotoxicology.* (2018), s. 1-17 ISSN 1743-5390

Obor OECD: Analytical chemistry



Impakt faktor: 6.428, rok: 2016

[DOI: 10.1080/17435390.2018.1438679](https://doi.org/10.1080/17435390.2018.1438679)

<http://hdl.handle.net/11104/0281597>

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

Impact of acute and subchronic inhalation exposure to PbO nanoparticles on mice.

*Nanotoxicology*. Roč. 12, č. 4 (2018), s. 290-304 ISSN 1743-5390

Obor OECD: Analytical chemistry

Impakt faktor: 6.428, rok: 2016

[DOI: 10.1080/17435390.2018.1438679](https://doi.org/10.1080/17435390.2018.1438679)

<http://hdl.handle.net/11104/0283535>

**Leoni, C. - Pokorná, Petra - Hovorka, J. - Masiol, M. - Topinka, Jan - Zhao, Y. - Křůmal, Kamil - Cliff, S. - Mikuška, Pavel - Hopke, P.K.**

Source Apportionment of Aerosol Particles at a European Air Pollution Hot Spot using Particle Number Size Distributions and Chemical Composition.

*Environmental Pollution*. Roč. 234, MAR 2018 (2018), s. 145-154 ISSN 0269-7491

Obor OECD: Physical chemistry

Impakt faktor: 5.099, rok: 2016

[DOI: 10.1016/j.envpol.2017.10.097](https://doi.org/10.1016/j.envpol.2017.10.097)

<http://hdl.handle.net/11104/0282099>

**Li, Y. - Dvořák, Miloš - Nesterenko, P. N. - Nuchtavorn, N. - Macka, M.**

High power deep UV-LEDs for analytical optical instrumentation.

*Sensors and Actuators B - Chemical*. Roč. 255, č. 2 (2018), s. 1238-1243 ISSN 0925-4005

Obor OECD: Analytical chemistry

Impakt faktor: 5.401, rok: 2016

[DOI: 10.1016/j.snb.2017.08.085](https://doi.org/10.1016/j.snb.2017.08.085)

<http://hdl.handle.net/11104/0277015>

**Malá, Zdeňka - Gebauer, Petr**

Electrophoretic focusing on inverse electromigration dispersion gradient. The fundamental resolution equation and pressure-assisted performance enhancement.

*Journal of Chromatography A*. Roč. 1563 (2018), s. 191-197 ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 3.981, rok: 2016

[DOI: 10.1016/j.chroma.2018.05.076](https://doi.org/10.1016/j.chroma.2018.05.076)

<http://hdl.handle.net/11104/0284734>

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

Investigation of hydride generation from arsenosugars - Is it feasible for speciation analysis?.

*Analytica Chimica Acta*. Roč. 1008, MAY (2018), s. 8-17 ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 4.950, rok: 2016

[DOI: 10.1016/j.aca.2018.01.009](https://doi.org/10.1016/j.aca.2018.01.009)

<http://hdl.handle.net/11104/0281365>

**Matoušek, Tomáš - Musil, Stanislav - Dědina, Jiří**

Influence of addition of organic solvent to ICP-MS plasma on sensitivity and limits of detection for elements forming volatile species and potential internal standard elements. *16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts*. Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 112-112.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./ 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284264>

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

Aerosol sampler for analysis of fine and ultrafine aerosols.

*Analytica Chimica Acta*. Roč. 1020 (2018), s. 123-133 ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 4.950, rok: 2016

DOI: [10.1016/j.aca.2018.02.070](https://doi.org/10.1016/j.aca.2018.02.070)

<http://hdl.handle.net/11104/0283436>

**Moravcová, Dana - Planeta, Josef - King, A. W. T. - Wiedmer, S. K.**

Immobilization of a phosphonium ionic liquid on a silica monolith for hydrophilic interaction chromatography.

*Journal of Chromatography A*. Roč. 1552, JUN (2018), s. 53-59 ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 3.981, rok: 2016

DOI: [10.1016/j.chroma.2018.04.012](https://doi.org/10.1016/j.chroma.2018.04.012)

<http://hdl.handle.net/11104/0284419>

**Musil, Stanislav**

Generování těžkých specií přechodných kovů pro analytickou atomovou spektrometrii se zaměřením na účinnost generování, prekoncentraci, identitu těžkých specií a studium mechanismu generování.

*Bulletin Spektroskopické společnosti Jana Marka Marci*. Vol. únor. Praha: Spektroskopická společnost Jana Marka Marci, 2018, únor (2018), s. 12-13.

[Soutěž o nejlepší práci v oboru spektroskopie mladých autorů (do 35 let). Brno (CZ), 30.11.2017-30.11.2017]

<http://www.spektroskopie.cz>

<http://hdl.handle.net/11104/0281394>

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

Hydride generation for speciation analysis of arsenic.

*ESAS & CANAS. Book of Abstracts*. 2018. s. 85-85.

[ESAS & CANAS. 20.03.2018-23.03.2018, Berlin]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0283182>

**Noori, A. - Mahbub, P. - Dvořák, Miloš - Lucieer, A. - Macka, M.**

Radiometric analysis of UV to near infrared LEDs for optical sensing and radiometric measurements in photochemical systems.

*Sensors and Actuators B - Chemical*. Roč. 262, JUN (2018), s. 171-179 ISSN 0925-4005



Obor OECD: Analytical chemistry  
 Impakt faktor: 5.401, rok: 2016  
[DOI: 10.1016/j.snb.2018.01.179](https://doi.org/10.1016/j.snb.2018.01.179)  
<http://hdl.handle.net/11104/0282371>

**Partyka, Jan - Křenková, Jana - Čmelík, Richard - Foret, František**  
 Multi-charged labeling of oligosaccharides and N-linked glycans by hexahistidine-based tags for capillary electrophoresis-mass spectrometry analysis.  
*Journal of Chromatography A*. Roč. 1560, JUL (2018), s. 91-96 ISSN 0021-9673  
 Obor OECD: Analytical chemistry  
 Impakt faktor: 3.981, rok: 2016  
[DOI: 10.1016/j.chroma.2018.05.030](https://doi.org/10.1016/j.chroma.2018.05.030)  
<http://hdl.handle.net/11104/0284259>

**Petreňová, Š. - Svoboda, Milan - Dědina, Jiří**  
 Arsenic speciation analysis by hydride generation - cryotrapping - gas chromatography - atomic absorption spectrometry.  
*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts*. Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 107-107.  
 [Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./. 27.05.2018-31.05.2018, Luhačovice]  
 Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0284362>

**Petry-Podgórska, Inga - Migašová, M. - Žídek, R. - Švehla, Jaroslav - Kratzer, Jan**  
 Volatile species generation for speciation analysis of mercury – preliminary studies.  
*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts*. Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 108-108.  
 [Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./. 27.05.2018-31.05.2018, Luhačovice]  
 Obor OECD: Analytical chemistry  
<http://hdl.handle.net/11104/0284267>

**Roth, Michal - Karásek, Pavel - Horká, Marie - Planeta, Josef - Šlais, Karel**  
 Supercritical water as an agent to treat fused silica capillaries for analytical separations.  
*ISASF Book of Abstracts*. Canéjan: ISASF, 2018, s. 1-8.  
 [International Symposium on Supercritical Fluids /12./. Paris (FR), 22.04.2018-25.04.2018]  
 Obor OECD: Analytical chemistry  
<http://supflu2018.fr/pdf/OM08.pdf>  
<http://hdl.handle.net/11104/0283704>

**Straka, Marek - Burhenn, S. - Marschner, Karel - Brandt, S. - Marggraf, U. - Dědina, Jiří - Franzke, J. - Kratzer, Jan**  
 Novel designs of dielectric barrier discharge atomizers for atomic spectrometry.  
*Spectrochimica Acta Part B: Atomic Spectroscopy*. Roč. 146, AUG (2018), s. 69-76 ISSN 0584-8547  
 Obor OECD: Analytical chemistry  
 Impakt faktor: 3.241, rok: 2016

[DOI: 10.1016/j.sab.2018.05.006](https://doi.org/10.1016/j.sab.2018.05.006)  
<http://hdl.handle.net/11104/0284758>

**Sustr, D. - Hlaváček, Antonín - Duschl, C. - Volodkin, D.**

Multi-fractional analysis of molecular diffusion in polymer multilayers by FRAP: A new simulation-based approach.

*Journal of Physical Chemistry B*. Roč. 122, č. 3 (2018), s. 1323-1333 ISSN 1520-6106

Obor OECD: Analytical chemistry

Impakt faktor: 3.177, rok: 2016

[DOI: 10.1021/acs.jpcc.7b11051](https://doi.org/10.1021/acs.jpcc.7b11051)  
<http://hdl.handle.net/11104/0281554>

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

Identification of bacterial uropathogens by preparative isoelectric focusing and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry.

*Journal of Chromatography A*. Roč. 1532, JAN (2018), s. 232-237 ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 3.981, rok: 2016

[DOI: 10.1016/j.chroma.2017.11.072](https://doi.org/10.1016/j.chroma.2017.11.072)  
<http://hdl.handle.net/11104/0279304>

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

Identification of *Aspergillus* spores by preparative IEF and MALDI-TOF MS.

*HTC 15*. 2018. s. 1-1.

[International Symposium on Hyphenated Techniques in Chromatography and Separation Technology /15./. 24.01.2018-26.01.2018, Cardiff]

Obor OECD: Analytical chemistry

[www.htc-conference.co.uk](http://www.htc-conference.co.uk)  
<http://hdl.handle.net/11104/0283635>

**Šesták, Jozef - Theurillat, R. - Sandbaumhüter, F. A. - Thormann, W.**

Fundamental aspects of field-amplified electrokinetic injection of cations for enantioselective capillary electrophoresis with sulfated cyclodextrins as selectors.

*Journal of Chromatography A*. Roč. 1558 (2018), s. 85-95 ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 3.981, rok: 2016

[DOI: 10.1016/j.chroma.2018.05.022](https://doi.org/10.1016/j.chroma.2018.05.022)  
<http://hdl.handle.net/11104/0284039>

**Šoukal, J. - Sturgeon, R. E. - Musil, Stanislav**

Photochemical vapor generation of molybdenum with ICP-MS detection.

*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts*. Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 104-104.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./. 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284239>

**Štádlarová, Barbora - Svoboda, Milan - Dědina, Jiří**

Optimization of atomization conditions for bismuth, lead and tin hydrides for development of hydride atomizers.

*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts.* Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 106-106.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./ 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284360>

**Švehla, Jaroslav - Kratzer, Jan - Svoboda, Milan - Svoboda, K. - Šyc, M. - Ružovič, T.**

Method development for speciation analysis of volatile mercury forms in ambient air and flue gases from incineration plants.

*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts.* Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 42-42.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./ 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284280>

**Vyhnanovský, Jaromír - Kratzer, Jan - Benada, Oldřich - Matoušek, Tomáš - Mester, Z. - Sturgeon, R. E. - Dědina, Jiří - Musil, Stanislav**

Diethyldithiocarbamate enhanced chemical generation of volatile palladium species, their characterization by AAS, ICP-MS, TEM and DART-MS and proposed mechanism of action.

*Analytica Chimica Acta.* Roč. 1005, APR (2018), s. 16-26 ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 4.950, rok: 2016

DOI: [10.1016/j.aca.2017.12.013](https://doi.org/10.1016/j.aca.2017.12.013)

<http://hdl.handle.net/11104/0280131>

**Zurynková, Pavla - Dědina, Jiří - Kratzer, Jan**

Trace determination of antimony by hydride generation atomic absorption spectrometry with analyte preconcentration/atomization in a dielectric barrier discharge atomizer.

*Analytica Chimica Acta.* Roč. 1010, JUN (2018), s. 11-19 ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 4.950, rok: 2016

DOI: [10.1016/j.aca.2018.01.033](https://doi.org/10.1016/j.aca.2018.01.033)

<http://hdl.handle.net/11104/0281417>

**Zvěřina, O. - Coufalík, Pavel - Barták, M. - Petrov, M. - Komárek, J.**

The contents and distributions of cadmium, mercury, and lead in *Usnea antarctica* lichens from Solorina Valley, James Ross Island (Antarctica).

*Environmental Monitoring and Assessment.* Roč. 190, č. 1 (2018), s. 1-9, č. článku 13. ISSN 0167-6369

Obor OECD: Analytical chemistry

Impakt faktor: 1.687, rok: 2016

DOI: [10.1007/s10661-017-6397-1](https://doi.org/10.1007/s10661-017-6397-1)

<http://hdl.handle.net/11104/0279859>

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

Determination of cadmium and iron in one firing with high-resolution continuum source AAS.

*16th Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy. Book of abstracts.* Brno: Spektroskopická společnost Jana Marka Marci, 2018. s. 116-116.

[Czech – Slovak Spectroscopic Conference including Microsymposium Challenges in Raman spectroscopy /16./. 27.05.2018-31.05.2018, Luhačovice]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0284363>

**Stav ke dni: 29. 6. 2018**