

Publikace vydané v roce 2018

Stav ke dni: 5. 11. 2018

Barboříková, H. - Mikuška, Pavel - Krajčovič, J.

Urban aerosol: metals as starters of cellular stress?.

7th Meeting on Chemistry and Life 2018. Book of abstracts. Brno: Vysoké učení technické v Brně, Fakulta chemická, 2018 - (Dzik, P.). s. 30-30. ISBN 978-80-214-5488-0.

[Meeting on Chemistry and Life 2018 /7./ 12.09.2018-14.09.2018, Brno]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0287037>**Brtko, J. - Strouhalová, Dana - Toporová, L. - Macejová, D. - Bobál, P. - Otevřel, J. - Bobálová, Janette**

Proteomic profile in human breast carcinoma MDA-MB-231 cells induced by tributyltin isothiocyanate, the biologically active ligand of nuclear retinoid X receptors.

RICT 2018. Book of Abstracts. Société de Chimie Thérapeutique, 2018. s. 131.

[RICT 2018. International Conference on Medicinal Chemistry /54./ 04.07.2018-06.07.2018, Strasbourg]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0285441>**Brtko, J. - Strouhalová, Dana - Toporová, L. - Laštovičková, Markéta - Macejová, D. - Bobálová, Janette**

Proteomic analysis of the effect of triorganotin compounds (RXR ligands) alone or with all-trans retinoic acid (RAR ligand) in human breast cancer MDA-MB-231 cell line.

Nuclear Receptors and Biological Networks. Abstract book. EMBO, 2018. s. 101-102.

[Nuclear receptors and biological networks. EMBO Workshop. 11.09.2018-15.09.2018, Kolymbari]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0288466>**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: 6.042, rok: 2017

[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, JUL (2018), s. 8-13 ISSN 0026-265X

Obor OECD: Analytical chemistry

Impakt faktor: 2.746, rok: 2017

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Coufalík, Pavel - Čmelík, Richard - Křůmal, Kamil - Čapka, Lukáš - Mikuška, Pavel

Determination of short-term changes in levoglucosan and dehydroabietic acid in aerosols with

Condensation Growth Unit - Aerosol Counterflow Two Jets Unit - LC-MS.

Chemosphere. Roč. 210, NOV (2018), s. 279-286 ISSN 0045-6535

Obor OECD: Analytical chemistry

Impakt faktor: 4.427, rok: 2017

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<http://hdl.handle.net/11104/0285071>

Coufalík, Pavel - Krmíček, Lukáš - Zvěřina, O. - Meszarosová, N. - Hladil, Jindřich - Komárek, J.

Model of mercury flux associated with volcanic activity.

Bulletin of Environmental Contamination and Toxicology. (2018), s. 1-5 ISSN 0007-4861

Obor OECD: Analytical chemistry

Impakt faktor: 1.480, rok: 2017

[DOI: 10.1007/s00128-018-2430-5](https://doi.org/10.1007/s00128-018-2430-5)

<http://hdl.handle.net/11104/0287268>

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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: 1.500, rok: 2017

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<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: 0.260, rok: 2017

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

Čapka, Lukáš - Mikuška, Pavel

Stanovení dikarboxylových kyselin v ovzduší pomocí aerosolového vzorkovače.

[Determination of dicarboxylic acids in air by aerosol sampler.]

Sborník XIX. výroční konference České aerosolové společnosti. Česká aerosolová společnost, 2018 - (Pokorná, P.), s. 72-73. ISBN 978-80-270-4780-2.

[Výroční konference České aerosolové společnosti /19./, Piešťany (SK), 25.10.2018-26.10.2018]

Obor OECD: Analytical chemistry

<http://hdl.handle.net/11104/0288706>

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
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Impakt faktor: 0.773, rok: 2017

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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
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Čmelík, Richard - Křenková, Jana - Foret, František

Synthetic approaches for new labeling tags facilitating glycan analysis.
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[CECE 2018. 15th International Interdisciplinary Meeting on Bioanalysis. Brno (CZ), 15.10.2018-17.10.2018]
Obor OECD: Analytical chemistry
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<http://hdl.handle.net/11104/0288461>

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: 2.415, rok: 2017

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

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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: 3.716, rok: 2017

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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 Forster resonance energy transfer.
Journal of Separation Science. Roč. 41, č. 14 (2018), s. 2961-2968 ISSN 1615-9306
Obor OECD: Analytical chemistry
Impakt faktor: 2.415, rok: 2017

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

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

Datinská, Vladimíra

Analyza 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

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Dočekal, Bohumil

Anorganická analýza. Kurz. Přednáška: Atomová absorpční spektrometrie.

[Inorganic analysis. Course. Lecture: Atomic absorption spectrometry.]

[Lednice, 15.10.2018-18.10.2018, (W-CST)]

Obor OECD: Analytical chemistry

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Dufka, Michaela - Dočekal, Bohumil

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Journal of Analytical Methods in Chemistry. (2018), s. 1-8, č. článku 9698710. ISSN 2090-8865

Obor OECD: Analytical chemistry

Impakt faktor: 1.262, rok: 2017

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<http://hdl.handle.net/11104/0279719>

Ďurč, 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: 4.244, rok: 2017

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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: 3.789, rok: 2017

[DOI: 10.1021/acs.langmuir.8b01074](https://doi.org/10.1021/acs.langmuir.8b01074)

<http://hdl.handle.net/11104/0284087>

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

Calcium-dependent reversible aggregation of biomimicking Escherichia coli vesicles evidenced by nanoplasmonic sensing and quartz crystal microbalance.

EuCheMS 2018. Programme. Liverpool: Royal Society of Chemistry, 2018. PP16.

[EuCheMS /7./ 26.08.2018-30.08.2018, Liverpool]

Obor OECD: Analytical chemistry

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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: 5.123, rok: 2017

[DOI: 10.1016/j.aca.2017.11.081](https://doi.org/10.1016/j.aca.2017.11.081)

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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: 6.042, rok: 2017

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<http://hdl.handle.net/11104/0281558>

Farka, Z. - Hlaváček, Antonín - Mickert, M. J. - Skládal, P. - Gorris, H H.

Photon-upconverting nanoparticles as a novel background-free label in immunoassays.

NANOCON 2017: Conference Proceedings. Ostrava: Tanger Ltd., 2018, s. 455-461. ISBN 978-80-87294-81-9.

[NANOCON 2017. International Conference on Nanomaterials - Research & Application /9./. Brno (CZ), 18.10.2017-20.10.2017]

Obor OECD: Analytical chemistry

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Foret, František - Datinská, Vladimíra - Voráčová, Ivona

Preparative displacement electrophoresis (isotachophoresis) from micro to macro.

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. 25-25. 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

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Obor OECD: Analytical chemistry

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

Preparative DNA concentration by Epitachophoresis.

Public Health Genomics. Roč. 21 (2018), s. 18-18 ISSN 1662-4246.

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Obor OECD: Analytical chemistry

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Hungarian Journal of Industrial Chemistry. Roč. 46, č. 1 (2018), s. 29-33 ISSN 0133-0276

Obor OECD: Analytical chemistry

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<http://hdl.handle.net/11104/0285633>

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: 3.307, rok: 2017

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Purification, separation and detection of Kayvirus using electrophoretic techniques.

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Obor OECD: Analytical chemistry

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

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Journal of Chromatography A. Roč. 1570, OCT (2018), s. 155-163 ISSN 0021-9673

Obor OECD: Analytical chemistry

Impakt faktor: 3.716, rok: 2017

[DOI: 10.1016/j.chroma.2018.07.078](https://doi.org/10.1016/j.chroma.2018.07.078)

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

Determination of the main phase transition temperature of phospholipids by nanoplasmonic sensing.

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Obor OECD: Analytical chemistry

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[DOI: 10.1038/s41598-018-33107-5](https://doi.org/10.1038/s41598-018-33107-5)

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

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

Obor OECD: Analytical chemistry

Impakt faktor: 4.358, rok: 2017

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Kahle, Vladislav - Šesták, Jozef

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[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: 3.716, rok: 2017

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

The possibilities of electrophoretic separations with fused silica capillaries modified by sub/supercritical water.

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. 84-84. 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

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Determination of permeability of ultra-fine cupric oxide aerosol through military filters and protective filters.

Journal of Physics Conference Series. In: *APPLIED NANOTECHNOLOGY AND NANOSCIENCE INTERNATIONAL CONFERENCE 2017 (ANNIC 2017).* Bristol: IOP PUBLISHING LTD, 2017 - (Tai, Y.), Roč. 987 (2018), s. 1-8, č. článku 012037. ISSN 1742-6588.

[Applied Nanotechnology and Nanoscience International Conference ANNIC 2017. Rome (IT), 18.10.2017-20.10.2017]

Obor OECD: Analytical chemistry

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<http://hdl.handle.net/11104/0287944>

Klepárník, Karel - Ledvina, Vojtěch

“VIS VITALIS” chromatography.

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. 65-65. 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/11104/0285132>

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>

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

Regional Air Pollution Transport and Its Influence to Pollution Hot Spot in the Czech Republic.

Abstracts. -: American Association for Aerosol Research, 2018, č. článku 10SA.28. ISBN N.

[International Aerosol Conference (IAC) /10./ . St. Louis, Missouri (US), 02.09.2018-07.09.2018]

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

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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

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