

**Publikace vydané v roce 2021**

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**Alexa, Lukáš - Mikuška, Pavel**

Vzorkovač pro ultra jemné aerosoly a nanočástice.

[Sampler for ultra-fine aerosols and nanoparticles.]

2021. Vlastník: Ústav analytické chemie AV ČR, v. v. i. Datum udělení vzoru: 23.02.2021. Číslo vzoru: 34851

Obor OECD: Analytical chemistry

<https://isdv.upv.cz/doc/FullFiles/UtilityModels/FullDocuments/FDUM0034/uv034851.pdf><http://hdl.handle.net/11104/0318262>**Burdějová, Lenka - Moravcová, Dana - Strouhalová, Dana - Lunerová, K.**Pressurized water extraction – the fast and efficient method for isolation of bioactive proteins from *Viscum album* leaves.*Journal of Pharmaceutical and Biomedical Analysis*. Roč. 195, FEB (2021), s. 1-7, č. článku 113850. ISSN 0731-7085

Obor OECD: Analytical chemistry

Impakt faktor: 3.209, rok: 2019

<http://hdl.handle.net/11104/0317298>DOI: [10.1016/j.jpba.2020.113850](https://doi.org/10.1016/j.jpba.2020.113850)<http://hdl.handle.net/11104/0317298>**Cigánková, Hana - Mikuška, Pavel - Hegrová, J. - Pokorná, Petra - Schwarz, Jaroslav - Krajčovič, J.**

Seasonal variation and sources of elements in urban submicron and fine aerosol in Brno, Czech Republic.

*Aerosol and Air Quality Research*. Roč. 21, č. 5 (2021), s. 1-19. ISSN 1680-8584

Obor OECD: Analytical chemistry

DOI: [10.4209/aaqr.2020.09.0556](https://doi.org/10.4209/aaqr.2020.09.0556)<http://hdl.handle.net/11104/0312595>**Čapka, Lukáš - Sedláček, J. - Mikuška, Pavel**

Sledování koncentrací aniontů v městském aerosolu pomocí miniaturizovaného impaktoru.

[Monitoring of anion concentration in urban aerosol using miniaturized impactor.]

*Chemické listy*. Roč. 115, č. 2 (2021), s. 99-103. ISSN 0009-2770

Obor OECD: Analytical chemistry

Impakt faktor: 0.390, rok: 2019

<http://hdl.handle.net/11104/0311526><http://hdl.handle.net/11104/0311526>**Dosedělová, V. - Itterheimová, P. - Kubáň, Petr**

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

*Electrophoresis*. Roč. 42, 1-2 (2021), s. 68-85. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 3.081, rok: 2019

<http://hdl.handle.net/11104/0310414>DOI: [10.1002/elps.202000139](https://doi.org/10.1002/elps.202000139)<http://hdl.handle.net/11104/0310414>

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

Speciation of germanium in environmental water reference materials by hydride generation and cryotrapping in combination with ICP-MS/MS.

*Talanta*. Roč. 225, APR (2021), s. 1-10, č. článku 121972. ISSN 0039-9140

Obor OECD: Analytical chemistry

Impakt faktor: 5.339, rok: 2019

<http://hdl.handle.net/11104/0314686>

[DOI: 10.1016/j.talanta.2020.121972](https://doi.org/10.1016/j.talanta.2020.121972)

<http://hdl.handle.net/11104/0314686>

**Horká, Marie - Karásek, Pavel - Roth, Michal - Štveráková, D. - Šalplachta, Jiří - Růžička, F. - Pantůček, R.**

Bacteriophage replication on permissive host cells in fused silica capillary with nanostructured part as potential of electrophoretic methods for developing phage applications.

*Talanta*. Roč. 224, MAR (2021), s. 1-8, č. článku 121800. ISSN 0039-9140

Obor OECD: Analytical chemistry

Impakt faktor: 5.339, rok: 2019

<http://hdl.handle.net/11104/0312048>

[DOI: 10.1016/j.talanta.2020.121800](https://doi.org/10.1016/j.talanta.2020.121800)

<http://hdl.handle.net/11104/0312048>

**Itterheimová, Petra - Kubáň, Petr - Foret, František**

High-resolution Arduino-based data acquisition devices for microscale separation systems.

*Analytica Chimica Acta*. Roč. 1153 (2021), s. 1-7, č. článku 338294. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.977, rok: 2019

<http://hdl.handle.net/11104/0317287>

[DOI: 10.1016/j.aca.2021.338294](https://doi.org/10.1016/j.aca.2021.338294)

<http://hdl.handle.net/11104/0317287>

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

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

*Electrophoresis*. Roč. 42, 1-2 (2021), s. 86-94. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 3.081, rok: 2019

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

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

**Matoušek, Tomáš - Kratzer, Jan - Sturgeon, R. E. - Mester, Z. - Musil, Stanislav**

A mass spectrometric study of hydride generated arsenic species identified by direct analysis in real time (DART) following cryotrapping.

*Analytical and Bioanalytical Chemistry*. MAR (2021). ISSN 1618-2642

Obor OECD: Analytical chemistry

Impakt faktor: 3.637, rok: 2019

<http://hdl.handle.net/11104/0319087>

[DOI: 10.1007/s00216-021-03289-5](https://doi.org/10.1007/s00216-021-03289-5)

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**Reider, B. - Jarvas, G. - Křenková, Jana - Guttman, A.**

Separation based characterization methods for the N-glycosylation analysis of prostate-specific antigen.

*Journal of Pharmaceutical and Biomedical Analysis*. Roč. 194, FEB (2021), s. 1-11, č. článku 113797.

ISSN 0731-7085

Obor OECD: Analytical chemistry

Impakt faktor: 3.209, rok: 2019

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[DOI: 10.1016/j.jpba.2020.113797](https://doi.org/10.1016/j.jpba.2020.113797)

<http://hdl.handle.net/11104/0316343>

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

Dried blood spot self-sampling with automated capillary electrophoresis processing for clinical analysis. *Angewandte Chemie - International Edition*. Roč. 60, FEB (2021), s. 6068-6075. ISSN 1433-7851

Obor OECD: Analytical chemistry

Impakt faktor: 12.959, rok: 2019

<http://hdl.handle.net/11104/0317563>

[DOI: 10.1002/anie.202012997](https://doi.org/10.1002/anie.202012997)

<http://hdl.handle.net/11104/0317563>

**Řemínek, Roman - Foret, František**

Capillary electrophoretic methods for quality control analyses of pharmaceuticals: A review.

*Electrophoresis*. Roč. 42, 1-2 (2021), s. 19-37. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 3.081, rok: 2019

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**Řemínek, Roman - Foret, František - Chung, D. S.**

Application of capillary electrophoresis-nano-electrospray ionization-mass spectrometry for the determination of N-nitrosodimethylamine in pharmaceuticals.

*Electrophoresis*. Roč. 42, č. 4 (2021), s. 334-341. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 3.081, rok: 2019

<http://hdl.handle.net/11104/0316481>

[DOI: 10.1002/elps.202000303](https://doi.org/10.1002/elps.202000303)

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**Sopoušek, J. - Humlíček, J. - Hlaváček, Antonín - Horáčková, V. - Skládal, P. - Lacina, K.**

Thick nanoporous matrices of polystyrene nanoparticles and their potential for electrochemical biosensing.

*Electrochimica acta*. Roč. 368, FEB (2021), s. 1-9, č. článku 137607. ISSN 0013-4686

Obor OECD: Analytical chemistry

Impakt faktor: 6.215, rok: 2019

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[DOI: 10.1016/j.electacta.2020.137607](https://doi.org/10.1016/j.electacta.2020.137607)

<http://hdl.handle.net/11104/0317566>

**Týčová, Anna - Příkryl, Jan - Kotzianová, A. - Datinská, Vladimíra - Velebný, V. - Foret, František**

Electrospray: More than just an ionization source.

*Electrophoresis*. Roč. 42, 1-2 (2021), s. 103-121. ISSN 0173-0835

Obor OECD: Analytical chemistry

Impakt faktor: 3.081, rok: 2019

<http://hdl.handle.net/11104/0310906>

[DOI: 10.1002/elps.202000191](https://doi.org/10.1002/elps.202000191)

<http://hdl.handle.net/11104/0310906>

**Voráčová, Ivona - Příkryl, Jan - Novotný, Jakub - Datinská, V. - Yang, J. - Astier, Y. - Foret, František**

3D printed device for Epitachophoresis.

*Analytica Chimica Acta*. Roč. 1154, APR (2021), s. 1-6, č. článku 338246. ISSN 0003-2670

Obor OECD: Analytical chemistry

Impakt faktor: 5.977, rok: 2019

<http://hdl.handle.net/11104/0317314>

[DOI: 10.1016/j.aca.2021.338246](https://doi.org/10.1016/j.aca.2021.338246)

<http://hdl.handle.net/11104/0317314>

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

Efficient photochemical vapor generation of bismuth using a coiled Teflon reactor: Effect of metal sensitizers and analytical performance with flame-in-gas-shield atomizer and atomic fluorescence spectrometry.

*Microchemical Journal*. Roč. 164, MAY (2021), s. 1-10, č. článku 105997. ISSN 0026-265X

Obor OECD: Analytical chemistry

Impakt faktor: 3.594, rok: 2019

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[DOI: 10.1016/j.microc.2021.105997](https://doi.org/10.1016/j.microc.2021.105997)

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