

Benign design in analytical chemistry

Kaljurand, Mihkel; Koel, Mihkel Critical reviews in analytical chemistry 2012 / p. 192-195

<https://www.tandfonline.com/doi/pdf/10.1080/10408347.2011.645378>

Can 3D printing bring droplet microfluidics to every lab? - A systematic review

Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas Micromachines 2021 / art. 339 <https://doi.org/10.3390/mi12030339>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cell Migration in Microfluidic Devices : Invadosomes Formation in Confined Environments

Chi, Pei-Yin; Spuul, Pirjo; Tseng, Fan-Gang Cell migrations : causes and functions 2019 / p. 79-103 https://doi.org/10.1007/978-3-030-17593-1_6

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cellprofiler is a fit tool for droplet digital image analysis

Bartkova, Simona; Vendelin, Marko; Pata, Pille; Scheler, Ott 23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences (MicroTAS 2019) Basel, Switzerland, 27 – 31 October 2019 2020 / art. 163704, p. 1644-1645

<https://doi.org/10.1101/811869>

Compact empirical model for droplet generation in a Lab-on-Chip cytometry system

Pärnamets, Kaiser; Udal, Andres; Koel, Ants; Pardy, Tamas; Gyimah, Nafisat; Rang, Toomas IEEE Access 2022 / p. 127708-127717 <https://doi.org/10.1109/ACCESS.2022.3226623>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of rectangular wave excitations in broad band impedance spectroscopy for microfluidic applications

Min, Mart; Giannitsis, Athanasios; Land, Raul; Cahill, Brian; Pliquet, Uwe; Nacke, T.; Frense, Dieter; Gastrock, Gunter; Beckmann, Dieter World Congress on Medical Physics and Biomedical Engineering : September 7-12, 2009, Munich, Germany 2009 / p. 85-88

https://link.springer.com/chapter/10.1007/978-3-642-03885-3_24

Comparison of spectrally sparse excitation signals for fast bioimpedance spectroscopy : in the context of cytometry

Ojarand, Jaan; Land, Raul; Min, Mart MeMeA 2012 IEEE International Symposium on Medical Measurements and Applications : proceedings : May 18-19, 2012, Budapest, Hungary 2012 / 5 p. : ill <https://ieeexplore.ieee.org/document/6226631>

Digital microfluidic sampler for a portable capillary electropherograph

Gorbatšova, Jelena; Jaanus, Martin; Kaljurand, Mihkel Analytical chemistry 2009 / p. 8590-8595 : ill

Digital twin for controlled generation of water-in-oil microdroplets with required size

Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas 2022 23rd International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems (EuroSimE), 25-27 April 2022, St Julian, Malta : proceedings 2022 / p. 85-91 <https://doi.org/10.1109/EuroSimE54907.2022.9758876>

Droplet image analysis with user-friendly freeware CellProfiler

Bartkova, Simona; Vendelin, Marko; Sanka, Immanuel; Pata, Pille; Scheler, Ott Analytical methods 2020 / p. 2287-2294 : ill

<https://doi.org/10.1039/D0AY00031K> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Droplet-based methods for tackling antimicrobial resistance

Ruszczak, Artur; Bartkova, Simona; Zapotoczna, Marta; Scheler, Ott; Garstecki, Piotr Current opinion in biotechnology 2022 / art. 102755 <https://doi.org/10.1016/j.copbio.2022.102755>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrowetting on dielectric actuation of droplets with capillary electrophoretic zones for MALDI mass spectrometric analysis

Gorbatšova, Jelena; Borissova, Maria; Kaljurand, Mihkel Electrophoresis 2012 / p. 2682-2688 : ill

<https://pubmed.ncbi.nlm.nih.gov/22965712/>

Electrowetting-on-dielectric actuation of droplets with capillary electrophoretic zones for off-line mass spectrometric analysis

Gorbatšova, Jelena; Borissova, Maria; Kaljurand, Mihkel Journal of chromatography A 2012 / p. 9-15 : ill

<https://pubmed.ncbi.nlm.nih.gov/22965712/>

Fabrication methods for microfluidic lab-on-chips

Giannitsis, Athanasios; Min, Mart BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 69-72

Imepisikesed tilgad käituvad katseklaasidena

Imeline Teadus 2023 / lk. 20 https://www.ester.ee/record=b2747925*est

Low-cost open-source flow velocity sensor for droplet generators

Prabatama, Nicky Andre; **Jõemaa, Rauno**; Hegedus, Kristof; **Pardy, Tamas** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 4 I. <https://doi.org/10.1109/BEC56180.2022.9935606>

Low-cost, portable dual-channel pressure pump for droplet microfluidics

Jõemaa, Rauno; Grosberg, Martin; Rang, Toomas; **Pardy, Tamas** 2022 45th Jubilee International Convention on Information, Communication and Electronic Technology (MIPRO), 23-27 May 2022, Opatija, Croatia : proceedings 2022 / p. 205-211 : ill <https://doi.org/10.23919/MIPRO55190.2022.9803371>

Microfabrication of biomedical lab-on-chip devices : a review

Giannitsis, Athanasios Estonian journal of engineering 2011 / p. 109-139 : ill

Microfluidic screening of antibiotic susceptibility at a single-cell level shows the inoculum effect of cefotaxime on: E. coli

Postek, Witold; Gargulinski, Pawel; **Scheler, Ott**; Kaminski, Tomasz S.; Garstecki, Piotr Lab on a Chip 2018 / p. 3668 - 3677 <https://doi.org/10.1039/c8lc00916c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multichannel electrical impedance spectroscopy analyzer with microfluidic sensors

Ojarand, Jaan; Min, Mart; **Koel, Ants** Sensors 2019 / art. 1891, 28 p. : ill <https://doi.org/10.3390/s19081891> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Open source hardware cost-effective imaging sensors for high-throughput droplet microfluidic systems

Pärnamets, Kaiser; **Koel, Ants**; **Pardy, Tamas**; **Rang, Toomas** Proceedings of 26th International Conference : ELECTRONICS 2022 2022 / 6 p <https://doi.org/10.1109/IEEECONF55059.2022.9810383>

Optical detection methods for droplet microfluidic applications = Optilised tuvastusmeetodid tilkade mikrofluidiliste rakenduste jaoks

Pärnamets, Kaiser 2023 <https://doi.org/10.23658/taltech.31/2023> <https://digikogu.taltech.ee/et/Item/ffb85150-fb85-4a7c-b130-0d7f2c3b7fb5> https://www.eester.ee/record=b5569973*est

Optical detection methods for high-throughput fluorescent droplet microflow cytometry

Pärnamets, Kaiser; **Pardy, Tamas**; **Koel, Ants**; **Rang, Toomas**; **Scheler, Ott**; **Le Moullec, Yannick**; **Afrin, Fariha** Micromachines 2021 / art. 345, 20 p. : ill <https://doi.org/10.3390/mi12030345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Paper microzones as a route to greener analytical chemistry

Kaljurand, Mihkel Current Opinion in Green and Sustainable Chemistry 2019 / p. 15-18 <https://doi.org/10.1016/j.cogsc.2019.03.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

PID controller tuning optimization using genetic algorithm for droplet size control in microfluidics

Gyimah, Nafisat; **Jõemaa, Rauno**; **Pärnamets, Kaiser**; **Scheler, Ott**; **Rang, Toomas**; **Pardy, Tamas** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p <https://doi.org/10.1109/BEC56180.2022.9935596>

Recent advancements on greening analytical separation

Kaljurand, Mihkel; **Koel, Mihkel** Critical reviews in analytical chemistry 2011 / p. 2-20 : ill <https://www.tandfonline.com/doi/full/10.1080/10408347.2011.539420>

Smart materials in miniaturized devices

Kaljurand, Mihkel Handbook of smart materials in analytical chemistry 2019 / p. 621–642 <https://doi.org/10.1002/9781119422587.ch19>

Thermal analysis of a disposable, instrument-free DNA amplification lab-on-a-chip platform

Pardy, Tamas; **Rang, Toomas**; Tulp, Indrek Sensors 2018 / art. 1812, 13 p. : ill <https://doi.org/10.3390/s18061812> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Usage of microfluidic lab-on-chips in biomedicine

Giannitsis, Athanasios; **Min, Mart** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 249-252