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

Chip design for microfluidic bioimpedance measurement
Giannitsis, Athanasios; Cahill, Brian; **Land, Raul**; Gastrock, Gunter; Pliquett, Uwe; Nacke, T.; **Min, Mart**; Beckmann, Dieter Tagungsband : Technische Systeme für die Lebenswissenschaften : 14.Heiligenstädter Kolloquium : Heiligenstadt (Germany), 22.9-24.9.2008 2008 / p. 423-432

Closed-loop droplet size control in microfluidics = Suletud ahelaga tilkade suuruse juhtimine mikrofluidikas
Gyimah, Nafisat 2024 https://digikogu.taltech.ee/et/Item/c4a0c9de-83e5-41ff-bdcf-24ba61182d1f https://www.ester.ee/record=b5698980*est https://doi.org/10.23658/taltech.47/2024

CogniFlow: integrated modular system for automated droplet microfluidic bioanalysis
Jõemaa, Rauno; **Afrin, Fariha**; **Gyimah, Nafisat**; Ashraf, Kanwal; **Pärnamets, Kaiser**; Giese, Lucas; Rocancourt, Mathieu; **Pardy, Tamas** EUROSENSORS XXXVI : Abstract book 2024 / PT6.188, p. 453-454 https://doi.org/10.5162/EUROSENSORSXXXVI/PT6.188

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; Pliquett, 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

Deep reinforcement learning-based digital twin for droplet microfluidics control
Gyimah, Nafisat; **Scheler, Ott**; **Rang, Toomas**; **Pardy, Tamas** Physics of Fluids 2023 / art. 082020 https://doi.org/10.1063/5.0159981 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of a transferable microfluidic droplet generator = Ülekantava mikrovedelik-tilkade generaatori arendus
Jõemaa, Rauno 2024 https://www.ester.ee/record=b5698969*est https://doi.org/10.23658/taltech.46/2024 https://digikogu.taltech.ee/et/Item/afb53063-1f89-4971-8758-142772e697dd

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/

Embedded blur-free single-image acquisition pipeline for droplet microfluidic imaging flow cytometry (IFC)
Afrin, Fariha; **Pärnamets, Kaiser**; **Le Moullec, Yannick**; **Udal, Andres**; **Koel, Ants**; **Pardy, Tamas**; **Rang, Toomas** IEEE Access 2024 / p. 92431-92441 https://doi.org/10.1109/ACCESS.2024.3421637

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

A Guide to biodetection in droplets
Bartkova, Simona; Zapotoczna, Marta; **Sanka, Immanuel**; **Scheler, Ott** Analytical chemistry 2024 / p. 9745-975518
https://doi.org/10.1021/acs.analchem.3c04282

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

Improving coplanar electrodes for moving water droplets
Giannitsis, Athanasios; Cahill, Brian; Pliquett, Uwe; Gastrock, Gunter; **Land, Raul**; Nacke, T.; **Min, Mart**; Beckmann, Dieter Proceedings of the 1st European Conference on Microfluidics - Microfluidics 2008 : Bologna, Italy December 10-12, 2008 2008 / [10] p https://www.academia.edu/26174470/Improving_coplanar_electrodes_for_moving_water_droplets

Instrument-free Lab-on-a-Chip DNA amplification test for pathogen detection [Online resource]
Pardy, Tamas; **Rang, Toomas**; Kremer, Clemens; Tulp, Indrek BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p. : ill
https://doi.org/10.1109/BEC.2018.8600991

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 / p. 1-4 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 droplet classification through tuned convolutional neural network on a resource constrained platform
Afrin, Fariha; **Le Moullec, Yannick**; **Pardy, Tamas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p
https://doi.org/10.1109/BEC61458.2024.10737958

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

Modular, dual-tone piezoelectric micropump driver for low-cost, portable droplet generation
Jõemaa, Rauno; **Pardy, Tamas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p
https://doi.org/10.1109/BEC61458.2024.10737948

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.ester.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

TalTechi teadlaste juhend aitab laboris veetilkade abil suuri avastusi teha
Bartkova, Simona postimees.ee 2024 TalTechi teadlaste juhend aitab laboris veetilkade abil suuri avastusi teha

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 Artice at WOS

3D finite element modelling of mixing phenomena in droplet-based microfluidic systems
Szomor, Zsombo; **Gyimah, Nafisat**; Fürjes, Peter; Pardy, Tamas 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p https://doi.org/10.1109/BEC61458.2024.10737975

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