

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>

Cogniflow-drop : integrated modular system for automated generation of droplets in microfluidic applications

Jõemaa, Rauno; Gyimah, Nafisat; Ashraf, Kanwal; Pärnamets, Kaiser; Zaft, Alexander; Scheler, Ott; Rang, Toomas; Pardy, Tamas IEEE Access 2023 / p. 104905-104929 <https://doi.org/10.1109/ACCESS.2023.3316726> [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>

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

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Modular, dual-tone piezoelectric micropump driver for low-cost, portable droplet generation

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Nanoscale and microscale simulations of N-N junction heterostructures of 3C-4H silicon carbide

Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas; Gähwiler, Reto; Grosberg, Martin; Jõemaa, Rauno Materials and contact characterisation VIII 2017 / p. 235-248 : ill <https://doi.org/10.2495/MC170241> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

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Polymer nanofiber deposition in lab-on-a-chip devices by electrospinning

Pardy, Tamas; Jõemaa, Rauno; Ender, Ferenc; Rang, Toomas; Hegedus, Kristof; Balogh-Weiser, Diana 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 4 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277494>