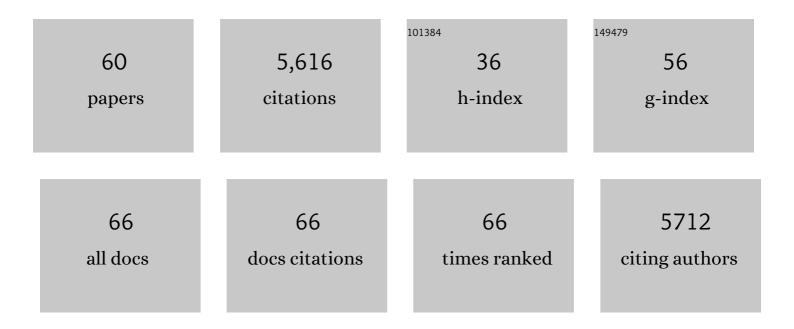
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Oneâ€Step Formation of Proteinâ€Based Tubular Structures for Functional Devices and Tissues. Advanced Healthcare Materials, 2021, 10, e2001746. | 3.9 | 5 |
| 2 | Towards controlled bubble nucleation in microreactors for enhanced mass transport. Reaction Chemistry and Engineering, 2021, 6, 1869-1877. | 1.9 | 1 |
| 3 | Continuous Formation of Ultrathin, Strong Collagen Sheets with Tunable Anisotropy and Compaction. ACS Biomaterials Science and Engineering, 2020, 6, 4236-4246. | 2.6 | 23 |
| 4 | Handheld instrument for wound-conformal delivery of skin precursor sheets improves healing in full-thickness burns. Biofabrication, 2020, 12, 025002. | 3.7 | 62 |
| 5 | 519 Development and Use of an Intraoperatively Usable Hand-Held Bio-Printer Delivering Mesenchymal Stem Cells In-situ. Journal of Burn Care and Research, 2019, 40, S235-S236. | 0.2 | 0 |
| 6 | 514 Effect of Topical Platelet Rich Plasma on Burn Healing After Partial Thickness Burn Injury. Journal of Burn Care and Research, 2019, 40, S233-S233. | 0.2 | 0 |
| 7 | Fabrication and in Vitro Characteristics of Completely Native Polymer, Cellularized Arterial Substitute. Journal of the American College of Surgeons, 2019, 229, S329. | 0.2 | 0 |
| 8 | Handheld skin printer: <i>in situ</i> formation of planar biomaterials and tissues. Lab on A Chip, 2018, 18, 1440-1451. | 3.1 | 175 |
| 9 | Microfluidic co-culture platform for investigating osteocyte-osteoclast signalling during fluid shear stress mechanostimulation. Journal of Biomechanics, 2017, 59, 35-42. | 0.9 | 58 |
| 10 | Bubble pump: scalable strategy for in-plane liquid routing. Lab on A Chip, 2015, 15, 2842-2853. | 3.1 | 13 |
| 11 | Artery-on-a-chip platform for automated, multimodal assessment of cerebral blood vessel structure and function. Lab on A Chip, 2015, 15, 2660-2669. | 3.1 | 53 |
| 12 | Peclet Number Dependence of Mass Transfer in Microscale Segmented Gas–Liquid Flow. Industrial & Engineering Chemistry Research, 2015, 54, 9046-9051. | 1.8 | 25 |
| 13 | Microfluidic Studies of CO ₂ Sequestration by Frustrated Lewis Pairs. Journal of the American Chemical Society, 2014, 136, 3875-3880. | 6.6 | 55 |
| 14 | Switchable Water: Microfluidic Investigation of Liquid–Liquid Phase Separation Mediated by Carbon Dioxide. Journal of the American Chemical Society, 2014, 136, 11972-11979. | 6.6 | 34 |
| 15 | Shaken, and stirred: oscillatory segmented flow for controlled size-evolution of colloidal nanomaterials. Lab on A Chip, 2014, 14, 2309-2318. | 3.1 | 34 |
| 16 | Microfluidic Studies of Carbon Dioxide. Angewandte Chemie - International Edition, 2014, 53, 7992-8002. | 7.2 | 56 |
| 17 | CMOS Neurotransmitter Microarray: 96-Channel Integrated Potentiostat With On-Die Microsensors. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 338-348. | 2.7 | 80 |
| 18 | Bubble gate for in-plane flow control. Lab on A Chip, 2013, 13, 2519. | 3.1 | 19 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Predictive microfluidic control of regulatory ligand trajectories in individual pluripotent cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3264-3269. | 3.3 | 63 |
| 20 | Automated microfluidic platform for studies of carbon dioxide dissolution and solubility in physical solvents. Lab on A Chip, 2012, 12, 1611. | 3.1 | 68 |
| 21 | Development and applications of a microfluidic reactor with multiple analytical probes. Analyst, The, 2012, 137, 444-450. | 1.7 | 25 |
| 22 | Microfluidic Study of Fast Gas–Liquid Reactions. Journal of the American Chemical Society, 2012, 134, 3127-3132. | 6.6 | 89 |
| 23 | Bubbles no more: in-plane trapping and removal of bubbles in microfluidic devices. Lab on A Chip, 2012, 12, 595-601. | 3.1 | 99 |
| 24 | Cruise control for segmented flow. Lab on A Chip, 2012, 12, 4787. | 3.1 | 22 |
| 25 | A CMOS-Microfluidic Chemiluminescence Contact Imaging Microsystem. IEEE Journal of Solid-State Circuits, 2012, 47, 2822-2833. | 3.5 | 20 |
| 26 | Mosaic Hydrogels: One‣tep Formation of Multiscale Soft Materials. Advanced Materials, 2012, 24, 3650-3658. | 11.1 | 113 |
| 27 | Hydrogels: Mosaic Hydrogels: Oneâ€Step Formation of Multiscale Soft Materials (Adv. Mater. 27/2012). Advanced Materials, 2012, 24, 3582-3582. | 11.1 | 1 |
| 28 | Temperature-controlled â€`breathing' of carbon dioxide bubbles. Lab on A Chip, 2011, 11, 3545. | 3.1 | 29 |
| 29 | Apoptotic osteocytes regulate osteoclast precursor recruitment and differentiation in vitro. Journal of Cellular Biochemistry, 2011, 112, 2412-2423. | 1.2 | 93 |
| 30 | 192-channel CMOS neurochemical microarray. , 2010, , . | | 9 |
| 31 | Microfluidic Synthesis of Polymer and Inorganic Particulate Materials. Annual Review of Materials Research, 2010, 40, 415-443. | 4.3 | 194 |
| 32 | A microfluidic platform for probing small artery structure and function. Lab on A Chip, 2010, 10, 2341. | 3.1 | 110 |
| 33 | Sphere-to-Wormlike Network Transition of Block Copolymer Micelles Containing CdSe Quantum Dots in the Corona. Macromolecules, 2010, 43, 5066-5074. | 2.2 | 58 |
| 34 | Effect of low-magnitude, high-frequency vibration on osteocytes in the regulation of osteoclasts. Bone, 2010, 46, 1508-1515. | 1.4 | 149 |
| 35 | A polymer chipâ€based technology for the investigation of small resistance arteries. FASEB Journal, 2010, 24, 1065.23. | 0.2 | 0 |
| 36 | Increasing Productivity of Microreactors for Fast Gasâ^'Liquid Reactions: The Case of Direct Fluorination of Toluene. Industrial & Engineering Chemistry Research, 2009, 48, 1428-1434. | 1.8 | 47 |

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|----|---|-----|-----------|
| 37 | A hybrid CMOS-microfluidic contact imaging microsystem. Proceedings of SPIE, 2009, , . | 0.8 | 3 |
| 38 | Microfluidic Platform for Investigating Small Blood Vessels. IFMBE Proceedings, 2009, , 376-377. | 0.2 | 0 |
| 39 | Multi-Step Microfluidic Polymerization Reactions Conducted in Droplets: The Internal Trigger Approach. Journal of the American Chemical Society, 2008, 130, 9935-9941. | 6.6 | 77 |
| 40 | Sample Dispersion for Segmented Flow in Microchannels with Rectangular Cross Section. Analytical Chemistry, 2008, 80, 1558-1567. | 3.2 | 64 |
| 41 | A computational study of axial dispersion in segmented gas-liquid flow. Physics of Fluids, 2007, 19, . | 1.6 | 38 |
| 42 | Flow-induced deformation of shallow microfluidic channels. Lab on A Chip, 2006, 6, 500. | 3.1 | 283 |
| 43 | Multiphase microfluidics: from flow characteristics to chemical and materials synthesis. Lab on A Chip, 2006, 6, 1487-1503. | 3.1 | 862 |
| 44 | Measurement of residence time distribution in microfluidic systems. Chemical Engineering Science, 2005, 60, 5729-5737. | 1.9 | 152 |
| 45 | A Microfabricated Gas-Liquid Segmented Flow Reactor for High-Temperature Synthesis: The Case of CdSe Quantum Dots. Angewandte Chemie - International Edition, 2005, 44, 5447-5451. | 7.2 | 252 |
| 46 | Cover Picture: A Microfabricated Gas-Liquid Segmented Flow Reactor for High-Temperature Synthesis: The Case of CdSe Quantum Dots (Angew. Chem. Int. Ed. 34/2005). Angewandte Chemie - International Edition, 2005, 44, 5349-5349. | 7.2 | 3 |
| 47 | Scaled-Out Multilayer Gasâ `Liquid Microreactor with Integrated Velocimetry Sensors. Industrial & Engineering Chemistry Research, 2005, 44, 8997-9013. | 1.8 | 105 |
| 48 | Cell Stimulus and Lysis in a Microfluidic Device with Segmented Gasâ^'Liquid Flow. Analytical Chemistry, 2005, 77, 3629-3636. | 3.2 | 84 |
| 49 | Micromixing of Miscible Liquids in Segmented Gasâ^'Liquid Flow. Langmuir, 2005, 21, 1547-1555. | 1.6 | 387 |
| 50 | An integrated multiphase flow sensor for microchannels. Experiments in Fluids, 2004, 36, 819-832. | 1.1 | 40 |
| 51 | Transport and reaction in microscale segmented gas–liquid flow. Lab on A Chip, 2004, 4, 278-286. | 3.1 | 465 |
| 52 | Microfluidic Synthesis of Colloidal Silica. Langmuir, 2004, 20, 8604-8611. | 1.6 | 397 |
| 53 | Transport of salts and micron-sized particles entrained from a boiling water pool. Experimental Thermal and Fluid Science, 2003, 27, 877-889. | 1.5 | 12 |
| 54 | Droplet production from disintegrating bubbles at water surfaces. Single vs. multiple bubbles. International Journal of Multiphase Flow, 2003, 29, 795-811. | 1.6 | 41 |

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| 55 | Dynamics of large-scale structures in turbulent flow over a wavy wall. Journal of Fluid Mechanics, 2003, 485, 87-96. | 1.4 | 28 |
| 56 | Large-scale structures in a developed flow over a wavy wall. Journal of Fluid Mechanics, 2003, 478, 257-285. | 1.4 | 51 |
| 57 | Microfabricated Multiphase Reactors for the Selective Direct Fluorination of Aromatics. Industrial & Engineering Chemistry Research, 2003, 42, 698-710. | 1.8 | 178 |
| 58 | Influence of the optical configuration on temperature measurements with fluid-dispersed TLCs. Experiments in Fluids, 2002, 32, 533-541. | 1.1 | 22 |
| 59 | Structure of the temperature field in a flow over heated waves. Experiments in Fluids, 2002, 33, 920-930. | 1.1 | 21 |
| 60 | Turbulent flow in a channel at a low Reynolds number. Experiments in Fluids, 1998, 25, 503-511. | 1.1 | 64 |