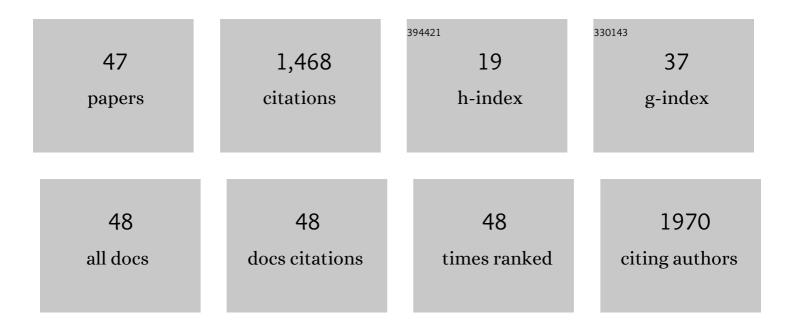
Peter Koltay

List of Publications by Year in descending order

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DETED KOLTAY

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Technologies for Single-Cell Isolation. International Journal of Molecular Sciences, 2015, 16, 16897-16919. | 4.1 | 339 |
| 2 | Completely Superhydrophobic PDMS Surfaces for Microfluidics. Langmuir, 2012, 28, 8292-8295. | 3.5 | 135 |
| 3 | Inkjet-like printing of single-cells. Lab on A Chip, 2011, 11, 2447. | 6.0 | 126 |
| 4 | Single-Cell Printer: Automated, On Demand, and Label Free. Journal of the Association for Laboratory Automation, 2013, 18, 504-518. | 2.8 | 91 |
| 5 | Multi-layer SU-8 lift-off technology for microfluidic devices. Journal of Micromechanics and Microengineering, 2005, 15, 1125-1130. | 2.6 | 86 |
| 6 | Assessment of hydrogels for bioprinting of endothelial cells. Journal of Biomedical Materials Research - Part A, 2018, 106, 935-947. | 4.0 | 63 |
| 7 | Large scale production and controlled deposition of single HUVEC spheroids for bioprinting applications. Biofabrication, 2017, 9, 025027. | 7.1 | 57 |
| 8 | Generic method of printing window adjustment for extrusion-based 3D-bioprinting to maintain high viability of mesenchymal stem cells in an alginate-gelatin hydrogel. Bioprinting, 2020, 20, e00094. | 5.8 | 36 |
| 9 | The dispensing well plate: a novel nanodispenser for the multiparallel delivery of liquids (DWP Part I). Sensors and Actuators A: Physical, 2004, 116, 483-491. | 4.1 | 33 |
| 10 | Cytocompatibility testing of hydrogels toward bioprinting of mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2017, 105, 3231-3241. | 4.0 | 33 |
| 11 | Enhanced Liquid Metal Micro Droplet Generation by Pneumatic Actuation Based on the StarJet Method. Micromachines, 2013, 4, 49-66. | 2.9 | 31 |
| 12 | In vivo evaluation of bioprinted prevascularized bone tissue. Biotechnology and Bioengineering, 2020, 117, 3902-3911. | 3.3 | 26 |
| 13 | Capillary-driven pumping for passive degassing and fuel supply in direct methanol fuel cells. Microfluidics and Nanofluidics, 2009, 7, 531-543. | 2.2 | 24 |
| 14 | Capillary driven movement of gas bubbles in tapered structures. Microfluidics and Nanofluidics, 2010, 9, 341-355. | 2.2 | 24 |
| 15 | Open microfluidic gel electrophoresis: Rapid and low cost separation and analysis of DNA at the nanoliter scale. Electrophoresis, 2017, 38, 1764-1770. | 2.4 | 23 |
| 16 | A Low-Cost, Normally Closed, Solenoid Valve for Non-Contact Dispensing in the Sub-µL Range. Micromachines, 2013, 4, 9-21. | 2.9 | 22 |
| 17 | Scalable fabrication of renal spheroids and nephron-like tubules by bioprinting and controlled self-assembly of epithelial cells. Biofabrication, 2021, 13, 035019. | 7.1 | 22 |
| 18 | Novel gravimetric measurement technique for quantitative volume calibration in the sub-microliter range. Measurement Science and Technology, 2013, 24, 025301. | 2.6 | 21 |

Peter Koltay

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|----|---|-----|-----------|
| 19 | Quantitative characterization of non-contact microdispensing technologies for the sub-microliter range. Drug Discovery Today, 2013, 18, 435-446. | 6.4 | 20 |
| 20 | Discrete Chemical Release From a Microfluidic Chip. Journal of Microelectromechanical Systems, 2007, 16, 786-794. | 2.5 | 19 |
| 21 | Multi physics network simulation of a solenoid dispensing valve. Mechatronics, 2014, 24, 209-221. | 3.3 | 19 |
| 22 | Molecular Genetic Characterization of Individual Cancer Cells Isolated via Single-Cell Printing. PLoS ONE, 2016, 11, e0163455. | 2.5 | 18 |
| 23 | Open-source hybrid 3D-bioprinter for simultaneous printing of thermoplastics and hydrogels. HardwareX, 2021, 10, e00230. | 2.2 | 18 |
| 24 | Single-cell dispensing and â€~real-time' cell classification using convolutional neural networks for higher efficiency in single-cell cloning. Scientific Reports, 2020, 10, 1193. | 3.3 | 17 |
| 25 | Theoretical evaluation of the dispensing well plate method (DWP part II). Sensors and Actuators A: Physical, 2004, 116, 472-482. | 4.1 | 15 |
| 26 | One Inch Thermal Bubble Jet Printhead With Laser Structured Integrated Polyimide Nozzle Plate. Journal of Microelectromechanical Systems, 2007, 16, 420-428. | 2.5 | 15 |
| 27 | Bioprinting of high cellâ€density constructs leads to controlled lumen formation with selfâ€assembly of endothelial cells. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1883-1895. | 2.7 | 14 |
| 28 | Examination of Hydrogels and Mesenchymal Stem Cell Sources for Bioprinting of Artificial Osteogenic Tissues. Cellular and Molecular Bioengineering, 2019, 12, 583-597. | 2.1 | 14 |
| 29 | Mechanical properties of polycaprolactone (PCL) scaffolds for hybrid 3D-bioprinting with alginate-gelatin hydrogel. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 130, 105219. | 3.1 | 14 |
| 30 | TopSpot® Vario: a novel microarrayer system for highly flexible and highly parallel picoliter dispensing. Biomedical Microdevices, 2009, 11, 755-761. | 2.8 | 13 |
| 31 | StarTube: A Tube with Reduced Contact Line for Minimized Gas Bubble Resistance. Langmuir, 2008, 24, 9204-9206. | 3.5 | 9 |
| 32 | Paperâ€based open microfluidic platform for protein electrophoresis and immunoprobing. Electrophoresis, 2022, 43, 621-631. | 2.4 | 9 |
| 33 | Localized Functional Chemical Stimulation of TE 671 Cells Cultured on Nanoporous Membrane by Calcein and Acetylcholine. Biophysical Journal, 2007, 92, L04-L06. | 0.5 | 7 |
| 34 | A Disposable Dispensing Valve for Non-Contact Microliter Applications in a 96-Well Plate Format. Micromachines, 2015, 6, 423-436. | 2.9 | 7 |
| 35 | Semi-contact-writing of polymer molds for prototyping PDMS chips with low surface roughness, sharp edges and locally varying channel heights. Journal of Micromechanics and Microengineering, 2016, 26, 045018. | 2.6 | 7 |
| 36 | <title>Microdispenser array for highly parallel and accurate liquid handling</title> . , 2001, , . | | 6 |

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PETER KOLTAY

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Liquid volume measurement method for the picoliter to nanoliter volume range based on quartz crystal microbalance technology. Measurement Science and Technology, 2014, 25, 095302. | 2.6 | 6 |
| 38 | A Calibration-Free, Noncontact, Disposable Liquid Dispensing Cartridge Featuring an Online Process Control. Journal of the Association for Laboratory Automation, 2014, 19, 394-402. | 2.8 | 6 |
| 39 | Fully passive degassing and fuel supply in direct methanol fuel cells. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , . | 0.0 | 5 |
| 40 | Characterization of CRISPR/Cas9 RANKL knockout mesenchymal stem cell clones based on single-cell printing technology and Emulsion Coupling assay as a low-cellularity workflow for single-cell cloning. PLoS ONE, 2021, 16, e0238330. | 2.5 | 5 |
| 41 | Wafer level fabrication of single cell dispenser chips with integrated electrodes for particle detection. Journal of Micromechanics and Microengineering, 2015, 25, 025008. | 2.6 | 4 |
| 42 | Technologies for Automated Single Cell Isolation. , 2018, , 1-28. | | 3 |
| 43 | A modular diffusion barrier based on phase separation for localized delivery of discrete drug volumes in aqueous environments. Lab on A Chip, 2009, 9, 1801. | 6.0 | 2 |
| 44 | Atmospheric Photopolymerization of Acrylamide Enabled by Aqueous Glycerol Mixtures: Characterization and Application for Surfaceâ€Based Microfluidics. Macromolecular Materials and Engineering, 2017, 302, 1600518. | 3.6 | 2 |
| 45 | Analysis of the metallic structure of microspheres produced by printing of aluminum alloys from the liquid melt. Materials Research Express, 2019, 6, 036514. | 1.6 | 2 |
| 46 | Digital Hydraulic Drive for microfluid large-scale integration system based on shape memory alloy actuators. , 2017, , . | | 0 |
| 47 | Technologies for Automated Single Cell Isolation. , 2022, , 235-262. | | 0 |