

# Joseph A Potkay

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,199  
citations

567281

15  
h-index

610901

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1133  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Parametric Analysis of Capillary Height in Single-Layer, Small-Scale Microfluidic Artificial Lungs. <i>Micromachines</i> , 2022, 13, 822.	2.9	1
2	Toward a Servoregulation Controller to Automate CO2 Removal in Wearable Artificial Lungs. <i>ASAIO Journal</i> , 2021, Publish Ahead of Print, .	1.6	3
3	Advancing 3D-Printed Microfluidics: Characterization of a Gas-Permeable, High-Resolution PDMS Resin for Stereolithography. <i>Micromachines</i> , 2021, 12, 1266.	2.9	18
4	Low-Resistance, Concentric-Gated Pediatric Artificial Lung for End-Stage Lung Failure. <i>ASAIO Journal</i> , 2020, 66, 423-432.	1.6	14
5	Assessing and improving the biocompatibility of microfluidic artificial lungs. <i>Acta Biomaterialia</i> , 2020, 112, 190-201.	8.3	17
6	A micro passive preconcentrator for micro gas chromatography. <i>Analyst</i> , The, 2020, 145, 7582-7594.	3.5	6
7	Advancing Front Oxygen Transfer Model for the Design of Microchannel Artificial Lungs. <i>ASAIO Journal</i> , 2020, 66, 1054-1062.	1.6	5
8	Design Analysis and Optimization of a Single-Layer PDMS Microfluidic Artificial Lung. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1082-1093.	4.2	24
9	Stability of Polyethylene Glycol and Zwitterionic Surface Modifications in PDMS Microfluidic Flow Chambers. <i>Langmuir</i> , 2018, 34, 492-502.	3.5	40
10	A small-scale, rolled-membrane microfluidic artificial lung designed towards future large area manufacturing. <i>Biomicrofluidics</i> , 2017, 11, 024113.	2.4	27
11	Micro vapor extractor for on-site determinations of volatile organic compounds in water and biofluids. , 2017, , .		1
12	Characterization of an S-nitroso-N-acetylpenicillamine-based nitric oxide releasing polymer from a translational perspective. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 769-778.	3.4	53
13	Achieving 12 Hour Normothermic Ex Situ Heart Perfusion: An Experience of 40 Porcine Hearts. <i>ASAIO Journal</i> , 2016, 62, 470-476.	1.6	31
14	Reply to the "Comment on "The promise of microfluidic artificial lungs" by G. Wagner, A. Kaesler, U. Steinseifer, T. Schmitz-Rode and J. Arens, <i>Lab Chip</i> , 2016, <b>16</b>, DOI: 10.1039/C5LC01508A. <i>Lab on A Chip</i> , 2016, 16, 1274-1277.	6.0	8
15	In vitro evaluation and in vivo demonstration of a biomimetic, hemocompatible, microfluidic artificial lung. <i>Lab on A Chip</i> , 2015, 15, 1366-1375.	6.0	42
16	The effects of PEG-based surface modification of PDMS microchannels on long-term hemocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, n/a-n/a.	4.0	45
17	The promise of microfluidic artificial lungs. <i>Lab on A Chip</i> , 2014, 14, 4122-4138.	6.0	89
18	A simple, closed-form, mathematical model for gas exchange in microchannel artificial lungs. <i>Biomedical Microdevices</i> , 2013, 15, 397-406.	2.8	23

#	ARTICLE	IF	CITATIONS
19	A Hybrid Thermopneumatic and Electrostatic Microvalve with Integrated Position Sensing. <i>Micromachines</i> , 2012, 3, 379-395.	2.9	9
20	Bio-inspired, efficient, artificial lung employing air as the ventilating gas. <i>Lab on A Chip</i> , 2011, 11, 2901.	6.0	65
21	A high efficiency micromachined artificial lung. , 2009, , .		3
22	Long term, implantable blood pressure monitoring systems. <i>Biomedical Microdevices</i> , 2008, 10, 379-392.	2.8	103
23	An Arterial Cuff Energy Scavenger For Implanted Microsystems. , 2008, , .		15
24	An Integrated Micro-Analytical System for Complex Vapor Mixtures. , 2007, , .		28
25	A Low-Power Pressure- and Temperature-Programmable Micro Gas Chromatography Column. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1071-1079.	2.5	61
26	High-performance temperature-programmed microfabricated gas chromatography columns. <i>Journal of Microelectromechanical Systems</i> , 2005, 14, 1039-1050.	2.5	109
27	First-generation hybrid MEMS gas chromatograph. <i>Lab on A Chip</i> , 2005, 5, 1123.	6.0	205
28	Design, Fabrication, and Evaluation of Microfabricated Columns for Gas Chromatography. <i>Analytical Chemistry</i> , 2004, 76, 2629-2637.	6.5	154