

Joel Voldman

List of Publications by Year in descending order

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34
papers

3,347
citations

394421

19
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

4324
citing authors

#	ARTICLE	IF	CITATIONS
1	ELECTRICAL FORCES FOR MICROSCALE CELL MANIPULATION. Annual Review of Biomedical Engineering, 2006, 8, 425-454.	12.3	790
2	A practical guide to microfluidic perfusion culture of adherent mammalian cells. Lab on A Chip, 2007, 7, 681.	6.0	409
3	A Microfabrication-Based Dynamic Array Cytometer. Analytical Chemistry, 2002, 74, 3984-3990.	6.5	314
4	Microfabrication in Biology and Medicine. Annual Review of Biomedical Engineering, 1999, 1, 401-425.	12.3	311
5	Microfluidic arrays for logarithmically perfused embryonic stem cell culture. Lab on A Chip, 2006, 6, 394.	6.0	262
6	Iso-acoustic focusing of cells for size-insensitive acousto-mechanical phenotyping. Nature Communications, 2016, 7, 11556.	12.8	181
7	A Scalable Addressable Positive-Dielectrophoretic Cell-Sorting Array. Analytical Chemistry, 2005, 77, 7976-7983.	6.5	169
8	Profiling lymphocyte interactions at the single-cell level by microfluidic cell pairing. Nature Communications, 2015, 6, 5940.	12.8	148
9	Fluid shear stress primes mouse embryonic stem cells for differentiation in a self-renewing environment <i>via</i> heparan sulfate proteoglycans transduction. FASEB Journal, 2011, 25, 1208-1217.	0.5	113
10	An active bubble trap and debubbler for microfluidic systems. Lab on A Chip, 2008, 8, 1733.	6.0	92
11	Attenuation of extrinsic signaling reveals the importance of matrix remodeling on maintenance of embryonic stem cell self-renewal. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 835-840.	7.1	83
12	Longitudinal multiparameter assay of lymphocyte interactions from onset by microfluidic cell pairing and culture. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3599-608.	7.1	78
13	Leukocyte function assessed via serial microlitre sampling of peripheral blood from sepsis patients correlates with disease severity. Nature Biomedical Engineering, 2019, 3, 961-973.	22.5	39
14	Advancing stem cell research with microtechnologies: opportunities and challenges. Integrative Biology (United Kingdom), 2010, 2, 305.	1.3	36
15	A cell-based sensor of fluid shear stress for microfluidics. Lab on A Chip, 2015, 15, 1563-1573.	6.0	36
16	Engineered systems for the physical manipulation of single cells. Current Opinion in Biotechnology, 2006, 17, 532-537.	6.6	34
17	Microfluidic neurite guidance to study structure-function relationships in topologically-complex population-based neural networks. Scientific Reports, 2016, 6, 28384.	3.3	32
18	Cellular bias on the microscale: probing the effects of digital microfluidic actuation on mammalian cell health, fitness and phenotype. Integrative Biology (United Kingdom), 2013, 5, 1014.	1.3	29

#	ARTICLE	IF	CITATIONS
19	Microfluidics in structured multimaterial fibers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10830-E10838.	7.1	26
20	Sequentially multiplexed amperometry for electrochemical biosensors. Biosensors and Bioelectronics, 2018, 117, 522-529.	10.1	22
21	Designable 3D Microshapes Fabricated at the Intersection of Structured Flow and Optical Fields. Small, 2018, 14, e1803585.	10.0	20
22	Caring for cells in microsystems: principles and practices of cell-safe device design and operation. Lab on A Chip, 2018, 18, 3333-3352.	6.0	17
23	Cell-Based Biosensor to Report DNA Damage in Micro- and Nanosystems. Analytical Chemistry, 2014, 86, 7598-7605.	6.5	16
24	Multiplexed Cell-Based Sensors for Assessing the Impact of Engineered Systems and Methods on Cell Health. Analytical Chemistry, 2017, 89, 4663-4670.	6.5	16
25	Cell-based sensors for quantifying the physiological impact of microsystems. Integrative Biology (United Kingdom), 2011, 3, 48-56.	1.3	15
26	Multi-frequency dielectrophoretic characterization of single cells. Microsystems and Nanoengineering, 2018, 4, 23.	7.0	15
27	Spatially and temporally controlled immune cell interactions using microscale tools. Current Opinion in Immunology, 2015, 35, 23-29.	5.5	12
28	A sample-to-answer electrochemical biosensor system for biomarker detection. Lab on A Chip, 2021, 22, 100-107.	6.0	10
29	Going my way?. Nature Physics, 2009, 5, 536-537.	16.7	6
30	Imageâ€Predicated Sorting of Adherent Cells Using Photopatterned Hydrogels. Advanced Healthcare Materials, 2013, 2, 552-556.	7.6	6
31	An integrated model for bead-based immunoassays. Biosensors and Bioelectronics, 2020, 154, 112070.	10.1	6
32	Inflammation resolution circuits are uncoupled in acute sepsis and correlate with clinical severity. JCI Insight, 2021, 6, .	5.0	4
33	Micro-scale Engineering for Cell Biology. Journal of Visualized Experiments, 2007, , 317.	0.3	0
34	Interfacing devices with cells. , 2009, , .		0