

Jian Zhou

List of Publications by Year in descending order

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26
papers

1,392
citations

516710

16
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

1359
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals of inertial focusing in microchannels. Lab on A Chip, 2013, 13, 1121.	6.0	351
2	Isolation of circulating tumor cells in non-small-cell-lung-cancer patients using a multi-flow microfluidic channel. Microsystems and Nanoengineering, 2019, 5, 8.	7.0	138
3	Modulation of aspect ratio for complete separation in an inertial microfluidic channel. Lab on A Chip, 2013, 13, 1919.	6.0	136
4	Viscoelastic microfluidics: progress and challenges. Microsystems and Nanoengineering, 2020, 6, 113.	7.0	109
5	Enhanced size-dependent trapping of particles using microvortices. Microfluidics and Nanofluidics, 2013, 15, 611-623.	2.2	75
6	Capture of Circulating Tumour Cell Clusters Using Straight Microfluidic Chips. Cancers, 2019, 11, 89.	3.7	75
7	Vortex-aided inertial microfluidic device for continuous particle separation with high size-selectivity, efficiency, and purity. Biomicrofluidics, 2013, 7, 044119.	2.4	70
8	Label-free microfluidic sorting of microparticles. APL Bioengineering, 2019, 3, 041504.	6.2	63
9	Single stream inertial focusing in low aspect-ratio triangular microchannels. Lab on A Chip, 2019, 19, 147-157.	6.0	55
10	Isolation of cells from whole blood using shear-induced diffusion. Scientific Reports, 2018, 8, 9411.	3.3	46
11	Microfluidic systems for hydrodynamic trapping of cells and clusters. Biomicrofluidics, 2020, 14, 031502.	2.4	44
12	Rapid Prototyping of Soft Lithography Masters for Microfluidic Devices Using Dry Film Photoresist in a Non-Cleanroom Setting. Micromachines, 2019, 10, 192.	2.9	41
13	The label-free separation and culture of tumor cells in a microfluidic biochip. Analyst, The, 2020, 145, 1706-1715.	3.5	27
14	Size-dependent enrichment of leukocytes from undiluted whole blood using shear-induced diffusion. Lab on A Chip, 2019, 19, 3416-3426.	6.0	25
15	A flexible cell concentrator using inertial focusing. Biomedical Microdevices, 2017, 19, 83.	2.8	22
16	Modulation of rotation-induced lift force for cell filtration in a low aspect ratio microchannel. Biomicrofluidics, 2014, 8, 044112.	2.4	19
17	Microfluidic techniques for isolation, formation, and characterization of circulating tumor cells and clusters. APL Bioengineering, 2022, 6, .	6.2	16
18	Non-small cell lung carcinoma spheroid models in agarose microwells for drug response studies. Lab on A Chip, 2022, 22, 2364-2375.	6.0	15

#	ARTICLE	IF	CITATIONS
19	Study of the union method of microelectrode array and AFM for the recording of electromechanical activities in living cardiomyocytes. <i>European Biophysics Journal</i> , 2017, 46, 495-507.	2.2	12
20	Resolving dynamics of inertial migration in straight and curved microchannels by direct cross-sectional imaging. <i>Biomicrofluidics</i> , 2021, 15, 014101.	2.4	11
21	Evaluation of Performance and Tunability of a Co-Flow Inertial Microfluidic Device. <i>Micromachines</i> , 2020, 11, 287.	2.9	10
22	Circulating tumor cell detection and single-cell analysis using an integrated workflow based on ChimeraX [®] 120 Platform: A prospective study. <i>Molecular Oncology</i> , 2021, 15, 2345-2362.	4.6	9
23	Mapping inertial migration in the cross section of a microfluidic channel with high-speed imaging. <i>Microsystems and Nanoengineering</i> , 2020, 6, 105.	7.0	8
24	Study of laser uncaging induced morphological alteration of rat cortical neurites using atomic force microscopy. <i>Journal of Neuroscience Methods</i> , 2015, 253, 151-160.	2.5	7
25	Polycarbonate Masters for Soft Lithography. <i>Micromachines</i> , 2021, 12, 1392.	2.9	5
26	Microfluidic separation of particles from whole blood using shear induced diffusion. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3