

Qianbin Zhao

List of Publications by Year in descending order

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35
papers

1,801
citations

279487

23
h-index

377514

34
g-index

36
all docs

36
docs citations

36
times ranked

1747
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , 2019, 10, 1300.	5.8	267
2	Recent progress of particle migration in viscoelastic fluids. <i>Lab on A Chip</i> , 2018, 18, 551-567.	3.1	186
3	Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. <i>Small</i> , 2018, 14, e1800118.	5.2	117
4	Phase Separation in Liquid Metal Nanoparticles. <i>Matter</i> , 2019, 1, 192-204.	5.0	110
5	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 14-25.	4.0	99
6	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019, 4, 1800420.	3.0	78
7	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. <i>Matter</i> , 2020, 3, 824-841.	5.0	77
8	A Review of Secondary Flow in Inertial Microfluidics. <i>Micromachines</i> , 2020, 11, 461.	1.4	75
9	Dynamic characteristics analysis of a rotor-stator system under different rubbing forms. <i>Applied Mathematical Modelling</i> , 2015, 39, 2392-2408.	2.2	74
10	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. <i>Lab on A Chip</i> , 2016, 16, 3947-3956.	3.1	73
11	Versatile Microfluidic Platforms Enabled by Novel Magnetorheological Elastomer Microactuators. <i>Advanced Functional Materials</i> , 2018, 28, 1705484.	7.8	71
12	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. <i>Analytical Chemistry</i> , 2019, 91, 4077-4084.	3.2	51
13	Continuous plasma extraction under viscoelastic fluid in a straight channel with asymmetrical expansion-contraction cavity arrays. <i>Lab on A Chip</i> , 2016, 16, 3919-3928.	3.1	50
14	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 1422-1430.	2.7	47
15	Sheathless separation of microalgae from bacteria using a simple straight channel based on viscoelastic microfluidics. <i>Lab on A Chip</i> , 2019, 19, 2811-2821.	3.1	42
16	Dynamic Temperature Control System for the Optimized Production of Liquid Metal Nanoparticles. <i>ACS Applied Nano Materials</i> , 2020, 3, 6905-6914.	2.4	38
17	On-Chip Microparticle and Cell Washing Using Coflow of Viscoelastic Fluid and Newtonian Fluid. <i>Analytical Chemistry</i> , 2017, 89, 9574-9582.	3.2	37
18	Investigation of particle lateral migration in sample-sheath flow of viscoelastic fluid and Newtonian fluid. <i>Electrophoresis</i> , 2016, 37, 2147-2155.	1.3	36

#	ARTICLE	IF	CITATIONS
19	Sheathless Dean-flow-coupled elasto-inertial particle focusing and separation in viscoelastic fluid. RSC Advances, 2017, 7, 3461-3469.	1.7	35
20	Dean-flow-coupled elasto-inertial particle and cell focusing in symmetric serpentine microchannels. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	33
21	A portable, hand-powered microfluidic device for sorting of biological particles. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	28
22	High-throughput sheathless and three-dimensional microparticle focusing using a microchannel with arc-shaped groove arrays. Scientific Reports, 2017, 7, 41153.	1.6	27
23	High-Throughput, Off-Chip Microdroplet Generator Enabled by a Spinning Conical Frustum. Analytical Chemistry, 2019, 91, 3725-3732.	3.2	27
24	Sheathless Separation of Cyanobacterial <i>Anabaena</i> by Shape Using Viscoelastic Microfluidics. Analytical Chemistry, 2021, 93, 12648-12654.	3.2	24
25	Flow rate-insensitive microparticle separation and filtration using a microchannel with arc-shaped groove arrays. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	21
26	Tunable Particle Focusing in a Straight Channel with Symmetric Semicircle Obstacle Arrays Using Electrophoresis-Modified Inertial Effects. Micromachines, 2016, 7, 195.	1.4	19
27	High-throughput production of uniformly sized liquid metal microdroplets using submerged electrodispersion. Applied Physics Letters, 2019, 114, 154101.	1.5	12
28	Mechanical Strain-Enabled Reconstitution of Dynamic Environment in Organ-on-a-Chip Platforms: A Review. Micromachines, 2021, 12, 765.	1.4	12
29	Modular off-chip emulsion generator enabled by a revolving needle. Lab on A Chip, 2020, 20, 4592-4599.	3.1	11
30	A rapid, maskless 3D prototyping for fabrication of capillary circuits: Toward urinary protein detection. Electrophoresis, 2018, 39, 957-964.	1.3	6
31	Top sheath flow-assisted secondary flow particle manipulation in microchannels with the slanted groove structure. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	6
32	The Continuous Concentration of Particles and Cancer Cell Line Using Cell Margination in a Groove-Based Channel. Micromachines, 2017, 8, 315.	1.4	5
33	Modular and Self-Contained Microfluidic Analytical Platforms Enabled by Magnetorheological Elastomer Microactuators. Micromachines, 2021, 12, 604.	1.4	5
34	Enhanced particle self-ordering in a double-layer channel. Biomedical Microdevices, 2018, 20, 23.	1.4	2
35	Simple, low-cost fabrication of semi-circular channel using the surface tension of solder paste and its application to microfluidic valves. Electrophoresis, 2018, 39, 1460-1465.	1.3	0