

Rui Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,163
citations

471509

17
h-index

642732

23
g-index

26
all docs

26
docs citations

26
times ranked

1609
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free inertial-ferrohydrodynamic cell separation with high throughput and resolution. Lab on A Chip, 2021, 21, 2738-2750.	6.0	22
2	Fundamentals of integrated ferrohydrodynamic cell separation in circulating tumor cell isolation. Lab on A Chip, 2021, 21, 1706-1723.	6.0	15
3	Simultaneous biochemical and functional phenotyping of single circulating tumor cells using ultrahigh throughput and recovery microfluidic devices. Lab on A Chip, 2021, 21, 3583-3597.	6.0	9
4	Label-free ferrohydrodynamic separation of exosome-like nanoparticles. Lab on A Chip, 2020, 20, 3187-3201.	6.0	22
5	Tumor antigen-independent and cell size variation-inclusive enrichment of viable circulating tumor cells. Lab on A Chip, 2019, 19, 1860-1876.	6.0	43
6	Magnetic resonance conditional paramagnetic choke for suppression of imaging artifacts during magnetic resonance imaging. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 597-604.	1.8	2
7	Reconfiguring ferromagnetic microrod chains by alternating two orthogonal magnetic fields. Journal of Physics Condensed Matter, 2018, 30, 315101.	1.8	0
8	Active colloids: Toward an intelligent micromachine. , 2018, , 279-312.		1
9	Biocompatible and label-free separation of cancer cells from cell culture lines from white blood cells in ferrofluids. Lab on A Chip, 2017, 17, 2243-2255.	6.0	55
10	Label-free ferrohydrodynamic cell separation of circulating tumor cells. Lab on A Chip, 2017, 17, 3097-3111.	6.0	56
11	Label-Free and Continuous-Flow Ferrohydrodynamic Separation of HeLa Cells and Blood Cells in Biocompatible Ferrofluids. Advanced Functional Materials, 2016, 26, 3990-3998.	14.9	77
12	The Magnetohydrodynamic Effect and Its Associated Material Designs for Biomedical Applications: A State-of-the-Art Review. Advanced Functional Materials, 2016, 26, 3942-3952.	14.9	36
13	Dynamic scaling of ferromagnetic micro-rod clusters under a weak magnetic field. Soft Matter, 2016, 12, 8440-8447.	2.7	5
14	Label-Free Microfluidic Manipulation of Particles and Cells in Magnetic Liquids. Advanced Functional Materials, 2016, 26, 3916-3932.	14.9	123
15	Magnetohydrodynamic-Driven Design of Microscopic Endocapsules in MRI. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2691-2698.	5.8	12
16	Magnetic-Field-Assisted Fabrication and Manipulation of Nonspherical Polymer Particles in Ferrofluid-Based Droplet Microfluidics. Langmuir, 2015, 31, 8531-8534.	3.5	18
17	Three-dimensional and analytical modeling of microfluidic particle transport in magnetic fluids. Microfluidics and Nanofluidics, 2014, 16, 1143-1154.	2.2	36
18	Combining positive and negative magnetophoreses to separate particles of different magnetic properties. Microfluidics and Nanofluidics, 2014, 17, 973-982.	2.2	43

#	ARTICLE	IF	CITATIONS
19	Acceleration of Tissue Plasminogen Activator-Mediated Thrombolysis by Magnetically Powered Nanomotors. ACS Nano, 2014, 8, 7746-7754.	14.6	160
20	Ferrofluidic platform for cell and droplet manipulation. , 2013, , .		1
21	Continuous-flow ferrohydrodynamic sorting of particles and cells in microfluidic devices. Microfluidics and Nanofluidics, 2012, 13, 645-654.	2.2	99
22	Magnetic Nanoparticle-Based Hyperthermia for Head & Neck Cancer in Mouse Models. Theranostics, 2012, 2, 113-121.	10.0	143
23	Focusing microparticles in a microfluidic channel with ferrofluids. Microfluidics and Nanofluidics, 2011, 11, 695-701.	2.2	63
24	Influence of Capillarity on Nano-Liter Flowrate Measurement with Displacement Method. Journal of Hydrodynamics, 2007, 19, 594-600.	3.2	5
25	Three-Dimensional Fluid-Structure Interaction Simulation of Bileaflet Mechanical Heart Valve Flow Dynamics. Annals of Biomedical Engineering, 2004, 32, 1471-1483.	2.5	93
26	Two-dimensional fluid-structure interaction simulation of bileaflet mechanical heart valve flow dynamics. Journal of Heart Valve Disease, 2003, 12, 772-80.	0.5	24