

Cheng Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1259423/publications.pdf>

Version: 2024-02-01

40
papers

1,090
citations

394421

19
h-index

395702

33
g-index

43
all docs

43
docs citations

43
times ranked

1126
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of falling ferrofluid droplets under magnetic fields. <i>Colloids and Interface Science Communications</i> , 2021, 40, 100333.	4.1	8
2	MXene-Graphene Field-Effect Transistor Sensing of Influenza Virus and SARS-CoV-2. <i>ACS Omega</i> , 2021, 6, 6643-6653.	3.5	101
3	Dynamics of a pair of paramagnetic particles in shear flows under a uniform magnetic field. <i>Physics of Fluids</i> , 2021, 33, .	4.0	8
4	Digital Microfluidics: Magnetic Transportation and Coalescence of Sessile Droplets on Hydrophobic Surfaces. <i>Langmuir</i> , 2021, 37, 5823-5837.	3.5	14
5	Dynamics of a Pair of Paramagnetic Janus Particles under a Uniform Magnetic Field and Simple Shear Flow. <i>Magnetochemistry</i> , 2021, 7, 16.	2.4	4
6	Spreading Dynamics of an Impinging Ferrofluid Droplet on Hydrophilic Surfaces under Uniform Magnetic Fields. <i>Langmuir</i> , 2021, 37, 13331-13345.	3.5	8
7	Lateral migration of a ferrofluid droplet in a plane Poiseuille flow under uniform magnetic fields. <i>Physical Review E</i> , 2020, 102, 022611.	2.1	4
8	Numerical Study of Paramagnetic Elliptical Microparticles in Curved Channels and Uniform Magnetic Fields. <i>Micromachines</i> , 2020, 11, 37.	2.9	6
9	Direct numerical simulation of microbubble streaming in a microfluidic device: The effect of the bubble protrusion depth on the vortex pattern. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 2117-2123.	2.7	7
10	Ferro-hydrodynamic interactions between ferrofluid droplet pairs in simple shear flows. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 124906.	4.7	12
11	Dynamics of a pair of ellipsoidal microparticles under a uniform magnetic field. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 104002.	2.6	5
12	Interactions of Bacteria With Monolithic Lateral Silicon Nanospikes Inside a Microfluidic Channel. <i>Frontiers in Chemistry</i> , 2019, 7, 483.	3.6	17
13	Three-dimensional rotation of paramagnetic and ferromagnetic prolate spheroids in simple shear and uniform magnetic field. <i>Physics of Fluids</i> , 2019, 31, .	4.0	2
14	Migration of ferrofluid droplets in shear flow under a uniform magnetic field. <i>Soft Matter</i> , 2019, 15, 2439-2446.	2.7	19
15	Magnetic field induced ferrofluid droplet breakup in a simple shear flow at a low Reynolds number. <i>Physics of Fluids</i> , 2019, 31, .	4.0	23
16	Shape-based separation of micro-/nanoparticles in liquid phases. <i>Biomicrofluidics</i> , 2018, 12, 051503.	2.4	20
17	Deformation of a ferrofluid droplet in simple shear flows under uniform magnetic fields. <i>Physics of Fluids</i> , 2018, 30, .	4.0	45
18	Numerical investigation of dynamics of elliptical magnetic microparticles in shear flows. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	10

#	ARTICLE	IF	CITATIONS
19	Numerical Study of Lateral Migration of Elliptical Magnetic Microparticles in Microchannels in Uniform Magnetic Fields. <i>Magnetochemistry</i> , 2018, 4, 16.	2.4	16
20	Dynamics of paramagnetic and ferromagnetic ellipsoidal particles in shear flow under a uniform magnetic field. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	8
21	Three dimensional phase-field investigation of droplet formation in microfluidic flow focusing devices with experimental validation. <i>International Journal of Multiphase Flow</i> , 2017, 93, 130-141.	3.4	88
22	Magnetic separation of microparticles by shape. <i>Lab on A Chip</i> , 2017, 17, 401-406.	6.0	49
23	Magnetic Control of Lateral Migration of Ellipsoidal Microparticles in Microscale Flows. <i>Physical Review Applied</i> , 2017, 8, .	3.8	21
24	Analysis of optimal mixing in open-flow mixers with time-modulated vortex arrays. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	11
25	Fabrication and integration of microscale permanent magnets for particle separation in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	19
26	Multiphase ferrofluid flows for micro-particle focusing and separation. <i>Biomicrofluidics</i> , 2016, 10, 034101.	2.4	34
27	Microfluidic separation of magnetic particles with soft magnetic microstructures. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	29
28	A Low-Cost Fabrication System for Manufacturing Soft-Lithography Microfluidic Master Molds. <i>Micro and Nanosystems</i> , 2015, 7, 4-12.	0.6	12
29	Three-Dimensional Phenomena in Microbubble Acoustic Streaming. <i>Physical Review Applied</i> , 2015, 3, .	3.8	48
30	Acoustic bubble enhanced pinched flow fractionation for microparticle separation. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 084005.	2.6	23
31	Two-dimensional streaming flows driven by sessile semicylindrical microbubbles. <i>Journal of Fluid Mechanics</i> , 2014, 739, 57-71.	3.4	32
32	Frequency dependence and frequency control of microbubble streaming flows. <i>Physics of Fluids</i> , 2013, 25, .	4.0	79
33	Efficient manipulation of microparticles in bubble streaming flows. <i>Biomicrofluidics</i> , 2012, 6, 12801-1280111.	2.4	85
34	Size-sensitive sorting of microparticles through control of flow geometry. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	69
35	10.1063/1.3610940.1. , 2011, , .		1
36	Liquidâ€“Liquid Stratified Flow in Microchannels. , 2008, , 1022-1031.		0

#	ARTICLE	IF	CITATIONS
37	Electro-osmotic control of the interface position of two-liquid flow through a microchannel. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 358-366.	2.6	42
38	Characterization of electroosmotic flow in rectangular microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 3115-3121.	4.8	41
39	Optical measurement of flow field and concentration field inside a moving nanoliter droplet. <i>Sensors and Actuators A: Physical</i> , 2007, 133, 317-322.	4.1	31
40	Interface control of pressure-driven two-fluid flow in microchannels using electroosmosis. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 2289-2297.	2.6	39