

Xu Zheng

List of Publications by Year in descending order

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34
papers

817
citations

567281

15
h-index

501196

28
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41
all docs

41
docs citations

41
times ranked

1152
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Gaussian statistics for the motion of self-propelled Janus particles: Experiment versus theory. <i>Physical Review E</i> , 2013, 88, 032304.	2.1	118
2	Probing Non-Gaussianity in Confined Diffusion of Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 514-519.	4.6	84
3	Cross-Interface Emulsification for Generating Size-Tunable Droplets. <i>Analytical Chemistry</i> , 2016, 88, 3171-3177.	6.5	69
4	The influence of Saffman lift force on nanoparticle concentration distribution near a wall. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	56
5	Deformable Metal-Organic Framework Nanosheets for Heterogeneous Catalytic Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 9408-9414.	13.7	50
6	The Self-Propulsion of the Spherical Pt-SiO ₂ Janus Micro-Motor. <i>Micromachines</i> , 2017, 8, 123.	2.9	49
7	Comparative study of mucoadhesive and mucus-penetrative nanoparticles based on phospholipid complex to overcome the mucus barrier for inhaled delivery of baicalein. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 1576-1585.	12.0	42
8	Three-dimensional virtual surgery models for percutaneous coronary intervention (PCI) optimization strategies. <i>Scientific Reports</i> , 2015, 5, 10945.	3.3	40
9	Measurement of velocity profiles in a rectangular microchannel with aspect ratio $\hat{\Lambda} = \hat{\Lambda}0.35$. <i>Experiments in Fluids</i> , 2008, 44, 951-959.	2.4	38
10	Programmed Coassembly of One-Dimensional Binary Superstructures by Liquid Soft Confinement. <i>Journal of the American Chemical Society</i> , 2018, 140, 18-21.	13.7	34
11	Diffusion of Nanoparticles with Activated Hopping in Crowded Polymer Solutions. <i>Nano Letters</i> , 2020, 20, 3895-3904.	9.1	34
12	Formation of Multicomponent Size-Sorted Assembly Patterns by Tunable Templated Dewetting. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16126-16130.	13.8	21
13	Janus particle microshuttle: 1D directional self-propulsion modulated by AC electrical field. <i>AIP Advances</i> , 2014, 4, 031325.	1.3	20
14	Compression Generated by a 3D Supracellular Actomyosin Cortex Promotes Embryonic Stem Cell Colony Growth and Expression of Nanog and Oct4. <i>Cell Systems</i> , 2019, 9, 214-220.e5.	6.2	20
15	Quasi-static motion of microparticles at the depinning contact line of an evaporating droplet on PDMS surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	18
16	Efficient Propulsion and Hovering of Bubble-Driven Hollow Micromotors underneath an Air-Liquid Interface. <i>Langmuir</i> , 2018, 34, 10426-10433.	3.5	16
17	Effects of the shape distribution of aerosol particles on their volumetric scattering properties and the radiative transfer through the atmosphere that includes polarization. <i>Applied Optics</i> , 2019, 58, 1475.	1.8	10
18	A micro-needle induced strategy for preparation of monodisperse liquid metal droplets in glass capillary microfluidics. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	9

#	ARTICLE	IF	CITATIONS
19	Interfacial Nanoinjection-Based Nanoliter Single-Cell Analysis. <i>Small</i> , 2020, 16, e1903739.	10.0	9
20	The influence of nano-particle tracers on the slip length measurements by microPTV. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013, 29, 411-419.	3.4	8
21	Simulation of diffusiophoresis force and the confinement effect of Janus particles with the continuum method. <i>AIP Advances</i> , 2014, 4, 031326.	1.3	8
22	OsciDrop: A Versatile Deterministic Droplet Generator. <i>Analytical Chemistry</i> , 2022, 94, 2918-2925.	6.5	8
23	Visualization and measurement of the self-propelled and rotational motion of the Janus microparticles. <i>Journal of Visualization</i> , 2015, 18, 425-435.	1.8	7
24	Study on the statistical intensity distribution (SID) of fluorescent nanoparticles in TIRFM measurement. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	7
25	Tunable and Contamination-Free Injection with Microfluidics by Stepinjection. <i>Analytical Chemistry</i> , 2021, 93, 13112-13117.	6.5	7
26	Studying aerosol light scattering based on aspect ratio distribution observed by fluorescence microscope. <i>Optics Express</i> , 2017, 25, A813.	3.4	6
27	Formation of Multicomponent Size-Sorted Assembly Patterns by Tunable Templated Dewetting. <i>Angewandte Chemie</i> , 2018, 130, 16358-16362.	2.0	6
28	Distinct dynamics of self-propelled bowl-shaped micromotors caused by shape effect: Concave vs convex. <i>Physics of Fluids</i> , 2021, 33, .	4.0	6
29	Effect of drag-reducing polymer on blood flow in microchannels. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 209, 112212.	5.0	5
30	Flow-pattern-altered syntheses of core-shell and hole-shell microparticles in an axisymmetric microfluidic device. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1378-1386.	3.4	4
31	Observation of the induced pressure in a hybrid micro/nano-channel. <i>Journal of Hydrodynamics</i> , 2013, 25, 274-279.	3.2	3
32	The hydrophobicity of surfaces with micro-structures. , 2006, , .		2
33	Synchronization and control of capillary flows in rectangular microchannel with spacers. <i>Biomicrofluidics</i> , 2020, 14, 044105.	2.4	2
34	Numerical simulation about trapping two particles in microfluidic dielectrophoretic chip. , 2012, , .		1