Guoqing Hu

List of Publications by Year
in descending order

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57 papers	3,224 citations	172457 29 h-index	149698 56 g-index
63 all docs	63 docs citations	63 times ranked	3692 citing authors

#	Article	IF	Citations
1	Multiscale computational framework for predicting viscoelasticity of red blood cells in aging and mechanical fatigue. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114535.	6.6	11
2	The aggregation of carbon nanotubes deteriorates their adverse effects on pulmonary surfactant monolayer. Nano Today, 2022, 45, 101525.	11.9	4
3	Machine learning assisted fast prediction of inertial lift in microchannels. Lab on A Chip, 2021, 21, 2544-2556.	6.0	21
4	Flow-pattern-altered syntheses of coreâ€“shell and holeâ€“shell microparticles in an axisymmetric microfluidic device. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1378-1386.	3.4	4
5	Interfacial behavior of phospholipid monolayers revealed by mesoscopic simulation. Biophysical Journal, 2021, 120, 4751-4762.	0.5	4
6	Cell membrane coating integrity affects the internalization mechanism of biomimetic nanoparticles. Nature Communications, 2021, 12, 5726.	12.8	126
7	Distinct dynamics of self-propelled bowl-shaped micromotors caused by shape effect: Concave vs convex. Physics of Fluids, 2021, 33, .	4.0	6
8	Amphiphilic silver nanoclusters show active nanoâ€“bio interaction with compelling antibacterial activity against multidrug-resistant bacteria. NPG Asia Materials, 2020, 12, .	7.9	15
9	Deep learning-based reconstruction of the structure of heterogeneous composites from their temperature fields. AIP Advances, 2020, 10, .	1.3	12
10	Diffusion of Nanoparticles with Activated Hopping in Crowded Polymer Solutions. Nano Letters, 2020, 20, 3895-3904.	9.1	34
11	Nanoparticle translocation across the lung surfactant film regulated by grafting polymers. Nanoscale, 2020, 12, 3931-3940.	5.6	18
12	Deformable Metalâ€“Organic Framework Nanosheets for Heterogeneous Catalytic Reactions. Journal of the American Chemical Society, 2020, 142, 9408-9414.	13.7	50
13	Directional transport of centimeter-scale object on anisotropic microcilia surface under water. Science China Materials, 2019, 62, 236-244.	6.3	13
14	Confinements regulate capillary instabilities of fluid threads. Journal of Fluid Mechanics, 2019, 873, 816-834.	3.4	14
15	Adsorption of Phospholipids at the Air-Water Surface. Biophysical Journal, 2019, 117, 1224-1233.	0.5	19
16	Directional and Rotational Motions of Nanoparticles on Plasma Membranes as Local Probes of Surface Tension Propagation. Langmuir, 2019, 35, 5333-5341.	3.5	10
17	Nanoparticle Ligand Exchange and Its Effects at the Nanoparticleâ€“Cell Membrane Interface. Nano Letters, 2019, 19, 8-18.	9.1	84
18	Diffusion of rod-like nanoparticles in non-adhesive and adhesive porous polymeric gels. Journal of the Mechanics and Physics of Solids, 2018, 112, 431-457.	4.8	39

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19	Extracorporeal Shock Wave Therapy: Quantitative Assessments of Mechanical Responses upon Radial Extracorporeal Shock Wave Therapy (Adv. Sci. 3/2018). Advanced Science, 2018, 5, 1870015.	11.2	0
20	Inertial migrations of cylindrical particles in rectangular microchannels: Variations of equilibrium positions and equivalent diameters. Physics of Fluids, 2018, 30, .	4.0	28
21	Electrothermal enrichment of submicron particles in an insulatorâ€based dielectrophoretic microdevice. Electrophoresis, 2018, 39, 887-896.	2.4	31
22	Extracting pulmonary surfactants to form inverse micelles on suspended graphene nanosheets. Environmental Science: Nano, 2018, 5, 130-140.	4.3	19
23	Fluid Property Effects on the Splashing in Teapot Effect. Journal of Physical Chemistry C, 2018, 122, 21411-21417.	3.1	3
24	Computational Investigations of the Interaction between the Cell Membrane and Nanoparticles Coated with a Pulmonary Surfactant. ACS Applied Materials & Interfaces, 2018, 10, 20368-20376.	8.0	40
25	Tunable structures of compound droplets formed by collision of immiscible microdroplets. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	11
26	Induced charge effects on electrokinetic entry flow. Physics of Fluids, 2017, 29, .	4.0	35
27	Unveiling the Molecular Structure of Pulmonary Surfactant Corona on Nanoparticles. ACS Nano, 2017, 11, 6832-6842.	14.6	103
28	Particle manipulations in non-Newtonian microfluidics: A review. Journal of Colloid and Interface Science, 2017, 500, 182-201.	9.4	214
29	Microfluidic co-flow of Newtonian and viscoelastic fluids for high-resolution separation of microparticles. Lab on A Chip, 2017, 17, 3078-3085.	6.0	77
30	Field-Free Isolation of Exosomes from Extracellular Vesicles by Microfluidic Viscoelastic Flows. ACS Nano, 2017, 11, 6968-6976.	14.6	369
31	Joule heating effects on electroosmotic entry flow. Electrophoresis, 2017, 38, 572-579.	2.4	41
32	High-Throughput Particle Manipulation Based on Hydrodynamic Effects in Microchannels. Micromachines, 2017, 8, 73.	2.9	54
33	Lateral migration of dual droplet trains in a double spiral microchannel. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	5
34	Sheathless Focusing and Separation of Diverse Nanoparticles in Viscoelastic Solutions with Minimized Shear Thinning. Analytical Chemistry, 2016, 88, 12547-12553.	6.5	74
35	A generalized formula for inertial lift on a sphere in microchannels. Lab on A Chip, 2016, 16, 884-892.	6.0	83
36	Probing Non-Gaussianity in Confined Diffusion of Nanoparticles. Journal of Physical Chemistry Letters, 2016, 7, 514-519.	4.6	84

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37	Deformation and Interaction of Droplet Pairs in a Microchannel Under ac Electric Fields. Physical Review Applied, 2015, 4, .	3.8	19
38	On the Successful Encapsulation of Water Droplets into Oil Droplets. Procedia Engineering, 2015, 126, 725-729.	1.2	1
39	Size-Based Separation of Particles and Cells Utilizing Viscoelastic Effects in Straight Microchannels. Analytical Chemistry, 2015, 87, 6041-6048.	6.5	141
40	Sheathless Separation of Particles and Cells by Viscoelastic Effects in Straight Rectangular Microchannels. Procedia Engineering, 2015, 126, 721-724.	1.2	8
41	Encoding and controlling of two droplet trains in a microfluidic network with the loop-like structure. Microfluidics and Nanofluidics, 2015, 19, 1363-1375.	2.2	4
42	Inertial focusing of spherical particles in rectangular microchannels over a wide range of Reynolds numbers. Lab on A Chip, 2015, 15, 1168-1177.	6.0	150
43	Microfluidic based high throughput synthesis of lipid-polymer hybrid nanoparticles with tunable diameters. Biomicrofluidics, 2015, 9, 052604.	2.4	84
44	Effects of graphene oxide nanosheets on the ultrastructure and biophysical properties of the pulmonary surfactant film. Nanoscale, 2015, 7, 18025-18029.	5.6	54
45	Inertial migration of deformable droplets in a microchannel. Physics of Fluids, 2014, 26, .	4.0	55
46	Joule heating effects on reservoirâ€based dielectrophoresis. Electrophoresis, 2014, 35, 721-727.	2.4	36
47	A microfluidic tubing method and its application for controlled synthesis of polymeric nanoparticles. Lab on A Chip, 2014, 14, 1673-1677.	6.0	75
48	Physicochemical Properties of Nanoparticles Regulate Translocation across Pulmonary Surfactant Monolayer and Formation of Lipoprotein Corona. ACS Nano, 2013, 7, 10525-10533.	14.6	181
49	Numerical modeling of <scp>J</scp>oule heating effects in insulatorâ€based dielectrophoresis microdevices. Electrophoresis, 2013, 34, 674-683.	2.4	45
50	Size-based hydrodynamic rare tumor cell separation in curved microfluidic channels. Biomicrofluidics, 2013, 7, 011802.	2.4	129
51	Double spiral microchannel for label-free tumor cell separation and enrichment. Lab on A Chip, 2012, 12, 3952.	6.0	242
52	Joule heating effects on electrokinetic focusing and trapping of particles in constriction microchannels. Journal of Micromechanics and Microengineering, 2012, 22, 075011.	2.6	22
53	Electrokinetic particle entry into microchannels. Electrophoresis, 2012, 33, 916-922.	2.4	20
54	Modeling of droplet traffic in interconnected microfluidic ladder devices. Electrophoresis, 2012, 33, 411-418.	2.4	9

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55	Joule heating effects on electroosmotic flow in insulatorâ€based dielectrophoresis. Electrophoresis, 2011, 32, 2274-2281.	2.4	86
56	Experimental characterization of electrical current leakage in poly(dimethylsiloxane) microfluidic devices. Microfluidics and Nanofluidics, 2009, 6, 589-598.	2.2	14
57	DC dielectrophoretic focusing of particles in a serpentine microchannel. Microfluidics and Nanofluidics, 2009, 7, 751-756.	2.2	94