Liuyong Shi

List of Publications by Year
in descending order

24 papers	276 citations	1163117 8 h-index	940533 16 g-index
24 all docs	24 docs citations	24 times ranked	159 citing authors

#	Article	IF	Citations
1	Electrokinetic transport of nanoparticles in functional group modified nanopores. Chinese Chemical Letters, 2023, 34, 107667.	9.0	4
2	Continuous separation of microparticles based on optically induced dielectrophoresis. Microfluidics and Nanofluidics, 2022, 26, 1.	2.2	9
3	The interaction between silica flat substrate and functional groupâ€“modified nanoparticles. Electrophoresis, 2022, 43, 1984-1992.	2.4	2
4	Droplet fusion by the interplay of electric potential and convergingâ€“diverging geometry in microâ€channels. Journal of Chemical Technology and Biotechnology, 2021, 96, 448-453.	3.2	4
5	Mixing mechanism of a straight channel micromixer based on light-actuated oscillating electroosmosis in low-frequency sinusoidal AC electric field. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	24
6	Multiâ€particle interaction in AC electric field driven by dielectrophoresis force. Electrophoresis, 2021, 42, 2189-2196.	2.4	1
7	Mixing Mechanism of Microfluidic Mixer with Staggered Virtual Electrode Based on Light-Actuated AC Electroosmosis. Micromachines, 2021, 12, 744.	2.9	6
8	Electrokinetic translocation of a deformable nanoparticle controlled by field effect in nanopores. Electrophoresis, 2021, 42, 2197-2205.	2.4	3
9	A new droplet breakup phenomenon in electrokinetic flow through a microchannel constriction. Electrophoresis, 2020, 41, 758-760.	2.4	1
10	AC dielectrophoretic deformable particleâ€particle interactions and their relative motions. Electrophoresis, 2020, 41, 952-958.	2.4	20
11	The Influence of Electric Field Intensity and Particle Length on the Electrokinetic Transport of Cylindrical Particles Passing through Nanopore. Micromachines, 2020, 11, 722.	2.9	3
12	Electrokinetic Translocation of a Deformable Nanoparticle through a Nanopore. ACS Applied Bio Materials, 2020, 3, 5160-5168.	4.6	4
13	The polarization reverse of diode-like conical nanopore under pH gradient. SN Applied Sciences, 2020, 2, 1.	2.9	2
14	Charge Properties and Electric Field Energy Density of Functional Group-Modified Nanoparticle Interacting with a Flat Substrate. Micromachines, 2020, 11, 1038.	2.9	6
15	A full-scale computational study on the electrodynamics of a rigid particle in an optically induced dielectrophoresis chip. Modern Physics Letters B, 2020, 34, 2050233.	1.9	4
16	Brush Layer Charge Characteristics of a Biomimetic Polyelectrolyte-Modified Nanoparticle Surface. Langmuir, 2020, 36, 15220-15229.	3.5	4
17	Dielectrophoretic choking phenomenon in a convergingâ€diverging microchannel for Janus particles. Electrophoresis, 2019, 40, 993-999.	2.4	18
18	Dielectrophoretic choking phenomenon of a deformable particle in a convergingâ€diverging microchannel. Electrophoresis, 2018, 39, 590-596.	2.4	32

#	Article	IF	Citations
19	The Mechanism of Size-Based Particle Separation by Dielectrophoresis in the Viscoelastic Flows. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.5	37
20	Numerical Investigation of DC Dielectrophoretic Deformable Particleâ€“Particle Interactions and Assembly. Micromachines, 2018, 9, 260.	2.9	5
21	A novel passive micromixer with modified asymmetric lateral wall structures. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2202.	1.5	9
22	Microstructure evolution and formation mechanism of graded cemented carbide with cubic-carbide-free layer prepared with TiN or Ti(C,N) free powder mixture. International Journal of Refractory Metals and Hard Materials, 2017, 66, 198-203.	3.8	8
23	A novel scalable microfluidic load sensor based on electrokinetic phenomena. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	25
24	An Enhanced Electroosmotic Micromixer with an Efficient Asymmetric Lateral Structure. Micromachines, 2016, 7, 218.	2.9	45