Junjun Lei

List of Publications by Year
in descending order

23 papers	573 citations	623734 14 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	401 citing authors

#	Article	IF	Citations
1	Acoustic streaming in the transducer plane in ultrasonic particle manipulation devices. Lab on A Chip, 2013, 13, 2133.	6.0	106
2	Numerical simulation of 3D boundary-driven acoustic streaming in microfluidic devices. Lab on A Chip, 2014, 14, 532-541.	6.0	78
3	Comparing methods for the modelling of boundary-driven streaming in acoustofluidic devices. Microfluidics and Nanofluidics, 2017, 21, 23.	2.2	59
4	Formation of inverse Chladni patterns in liquids at microscale: roles of acoustic radiation and streaming-induced drag forces. Microfluidics and Nanofluidics, 2017, 21, 50.	2.2	42
5	Modal Rayleigh-like streaming in layered acoustofluidic devices. Physics of Fluids, 2016, 28, .	4.0	36
6	Understanding the relationship between particle size and ultrasonic treatment during the synthesis of metal nanoparticles. Ultrasonics Sonochemistry, 2021, 73, 105497.	8.2	34
7	Numerical Simulation of Boundary-Driven Acoustic Streaming in Microfluidic Channels with Circular Cross-Sections. Micromachines, 2020, 11, 240.	2.9	22
8	Effects of micron scale surface profiles on acoustic streaming. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	21
9	Phononic crystal-enhanced near-boundary streaming for sonoporation. Applied Physics Letters, 2018, 113, 083701.	3.3	20
10	Rapid acoustophoretic motion of microparticles manipulated by phononic crystals. Applied Physics Letters, 2018, 113, .	3.3	19
11	The effect of ultrasound-related stimuli on cell viability in microfluidic channels. Journal of Nanobiotechnology, 2013, 11, 20.	9.1	18
12	Two-dimensional concentration of microparticles using bulk acousto-microfluidics. Applied Physics Letters, 2020, 116, .	3.3	18
13	Transducer-Plane Streaming Patterns in Thin-Layer Acoustofluidic Devices. Physical Review Applied, 2017, 8, .	3.8	16
14	Ultrasonic Particle Manipulation in Glass Capillaries: A Concise Review. Micromachines, 2021, 12, 876.	2.9	14
15	Dexterous formation of unconventional Chladni patterns using standing bulk acoustic waves. Applied Physics Letters, 2020, 117, 184101.	3.3	13
16	Numerical simulation of continuous separation of microparticles in two-stage acousto-microfluidic systems. Applied Mathematical Modelling, 2020, 83, 342-356.	4.2	13
17	Microstreaming inside Model Cells Induced by Ultrasound and Microbubbles. Langmuir, 2020, 36, 6388-6398.	3.5	12
18	Standard and inverse transducer-plane streaming patterns in resonant acoustofluidic devices: Experiments and simulations. Applied Mathematical Modelling, 2020, 77, 456-468.	4.2	9

#	Article	IF	Citations
19	Ultrafast Rayleigh-like streaming in a sub-wavelength slit between two phononic crystal plates. Journal of Applied Physics, 2019, 125, .	2.5	8
20	Simultaneous imaging and manipulation of microparticles in horizontal and vertical planes of microchannels using a single objective lens. Applied Physics Letters, 2020, 117, .	3.3	7
21	Multiphase lattice Boltzmann modeling of dielectrophoresis fractionation of soft particles. Physics of Fluids, 2021, 33, 063311.	4.0	3
22	Numerical study of enhanced Rayleigh streaming in resonant cylindrical shells. Journal of Micromechanics and Microengineering, 2021, 31, 104005.	2.6	2
23	Outer Acoustic Streaming Flow Driven by Asymmetric Acoustic Resonances. Micromachines, 2022, 13, 65.	2.9	2