

# Junjun Lei

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Outer Acoustic Streaming Flow Driven by Asymmetric Acoustic Resonances. <i>Micromachines</i> , 2022, 13, 65.  | 2.9 | 2         |
| 2  | Understanding the relationship between particle size and ultrasonic treatment during the synthesis of metal nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105497.         | 8.2 | 34        |
| 3  | Multiphase lattice Boltzmann modeling of dielectrophoresis fractionation of soft particles. <i>Physics of Fluids</i> , 2021, 33, 063311.  | 4.0 | 3         |
| 4  | Ultrasonic Particle Manipulation in Glass Capillaries: A Concise Review. <i>Micromachines</i> , 2021, 12, 876.  | 2.9 | 14        |
| 5  | Numerical study of enhanced Rayleigh streaming in resonant cylindrical shells. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 104005.                                | 2.6 | 2         |
| 6  | Standard and inverse transducer-plane streaming patterns in resonant acoustofluidic devices: Experiments and simulations. <i>Applied Mathematical Modelling</i> , 2020, 77, 456-468.    | 4.2 | 9         |
| 7  | Dexterous formation of unconventional Chladni patterns using standing bulk acoustic waves. <i>Applied Physics Letters</i> , 2020, 117, 184101.  | 3.3 | 13        |
| 8  | Microstreaming inside Model Cells Induced by Ultrasound and Microbubbles. <i>Langmuir</i> , 2020, 36, 6388-6398.  | 3.5 | 12        |
| 9  | Numerical Simulation of Boundary-Driven Acoustic Streaming in Microfluidic Channels with Circular Cross-Sections. <i>Micromachines</i> , 2020, 11, 240.                                 | 2.9 | 22        |
| 10 | Numerical simulation of continuous separation of microparticles in two-stage acousto-microfluidic systems. <i>Applied Mathematical Modelling</i> , 2020, 83, 342-356.                   | 4.2 | 13        |
| 11 | Two-dimensional concentration of microparticles using bulk acousto-microfluidics. <i>Applied Physics Letters</i> , 2020, 116, .   | 3.3 | 18        |
| 12 | Simultaneous imaging and manipulation of microparticles in horizontal and vertical planes of microchannels using a single objective lens. <i>Applied Physics Letters</i> , 2020, 117, . | 3.3 | 7         |
| 13 | Ultrafast Rayleigh-like streaming in a sub-wavelength slit between two phononic crystal plates. <i>Journal of Applied Physics</i> , 2019, 125, .  | 2.5 | 8         |
| 14 | Effects of micron scale surface profiles on acoustic streaming. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.  | 2.2 | 21        |
| 15 | Rapid acoustophoretic motion of microparticles manipulated by phononic crystals. <i>Applied Physics Letters</i> , 2018, 113, .  | 3.3 | 19        |
| 16 | Phononic crystal-enhanced near-boundary streaming for sonoporation. <i>Applied Physics Letters</i> , 2018, 113, 083701.   | 3.3 | 20        |
| 17 | Comparing methods for the modelling of boundary-driven streaming in acoustofluidic devices. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 23.                                       | 2.2 | 59        |
| 18 | Formation of inverse Chladni patterns in liquids at microscale: roles of acoustic radiation and streaming-induced drag forces. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 50.    | 2.2 | 42        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Transducer-Plane Streaming Patterns in Thin-Layer Acoustofluidic Devices. Physical Review Applied, 2017, 8, .                    | 3.8 | 16        |
| 20 | Modal Rayleigh-like streaming in layered acoustofluidic devices. Physics of Fluids, 2016, 28, .                                  | 4.0 | 36        |
| 21 | Numerical simulation of 3D boundary-driven acoustic streaming in microfluidic devices. Lab on A Chip, 2014, 14, 532-541.         | 6.0 | 78        |
| 22 | The effect of ultrasound-related stimuli on cell viability in microfluidic channels. Journal of Nanobiotechnology, 2013, 11, 20. | 9.1 | 18        |
| 23 | Acoustic streaming in the transducer plane in ultrasonic particle manipulation devices. Lab on A Chip, 2013, 13, 2133.           | 6.0 | 106       |