# Pengzhan Liu

List of Publications by Year
in descending order



| 22 | 332 | 933447 10 | 839539 18 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 25 | 25 | 25 | 236 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Rotational manipulation of massive particles in a 2D acoustofluidic chamber constituted by multiple nonlinear vibration sources. Chinese Physics B, 2022, 31, 044301. | 1.4 | 3 |
| 2 | Acoustofluidic multimodal diagnostic system for Alzheimer's disease. Biosensors and Bioelectronics, 2022, 196, 113730. | 10.1 | 31 |
| 3 | Design of an array of piezoresistive airflow sensors based on pressure loading mode for simultaneous detection of airflow velocity and direction. Review of Scientific Instruments, 2022, 93, 025001. | 1.3 | 3 |
| 4 | Near-field electrospinning-enabled direct-write P(VDF-TrFE) nano/micro-fiber-based piezoelectric film for a high-performance airflow sensor. Sensors and Actuators A: Physical, 2022, 336, 113399. | 4.1 | 7 |
| 5 | Acoustofluidic black holes for multifunctional in-droplet particle manipulation. Science Advances, 2022, 8, eabm2592. | 10.3 | 17 |
| 6 | Sophisticated acoustofluidic patterns generated in quasi-SierpiÅ„ski-carpet shaped chambers with heterogeneous radiation surface distributions. Physica Scripta, 2022, 97, 085209. | 2.5 | 1 |
| 7 | Principle analysis for the micromanipulation probe-type ultrasonic nanomotor. Sensors and Actuators A: Physical, 2021, 318, 112524. | 4.1 | 6 |
| 8 | Ultrasonic trapping and collection of airborne particulate matter enabled by multiple acoustic streaming vortices. Journal of Micromechanics and Microengineering, 2021, 31, 124001. | 2.6 | 1 |
| 9 | Sharp-edge acoustic microfluidics: Principles, structures, and applications. Applied Materials Today, 2021, 25, 101239. | 4.3 | 18 |
| 10 | Focused Ultrasound Assistance to the MOS Gas Sensor System. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1009-1016. | 3.0 | 6 |
| 11 | A novel strategy to identify gases by a single catalytic combustible sensor working in its linear range. Sensors and Actuators B: Chemical, 2020, 321, 128514. | 7.8 | 13 |
| 12 | Acoustofluidic multi-well plates for enrichment of micro/nano particles and cells. Lab on A Chip, 2020, 20, 3399-3409. | 6.0 | 33 |
| 13 | 2D acoustofluidic patterns in an ultrasonic chamber modulated by phononic crystal structures. Microfluidics and Nanofluidics, 2020, 24, 1. | 2.2 | 7 |
| 14 | Acoustofluidicsâ€Assisted Fluorescenceâ€SERS Bimodal Biosensors. Small, 2020, 16, e2005179. | 10.0 | 68 |
| 15 | An internal miniature diversion channel-integrated piezoelectric airflow sensor. Smart Materials and Structures, 2020, 29, 087004. | 3.5 | 9 |
| 16 | Modeling and Analysis of the Two-Dimensional Axisymmetric Acoustofluidic Fields in the Probe-Type and Substrate-Type Ultrasonic Micro/Nano Manipulation Systems. Micromachines, 2020, 11, 22. | 2.9 | 2 |
| 17 | Acoustofluidics-Assisted Engineering of Multifunctional Three-Dimensional Zinc Oxide Nanoarrays. ACS Nano, 2020, 14, 6150-6163. | 14.6 | 56 |
| 18 | A low temperature-rise and facile manipulation method for single micro objects at the air-substrate interface. Journal of Micromechanics and Microengineering, 2019, 29, 105007. | 2.6 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Analyses of acoustofluidic field in ultrasonic needleâ€“liquidâ€“substrate system for micro-/nanoscale material concentration. Microfluidics and Nanofluidics, 2018, 22, 1. | 2.2 | 13 |
| 20 | Physical principle of enhancing the sensitivity of a metal oxide gas sensor using bulk acoustic waves. Journal of Applied Physics, 2018, 124, . | 2.5 | 14 |
| 21 | Controlled concentration and transportation of nanoparticles at the interface between a plain substrate and droplet. Sensors and Actuators B: Chemical, 2018, 274, 381-392. | 7.8 | 14 |
| 22 | Controlled removal of micro/nanoscale particles in submillimeter-diameter area on a substrate. Review of Scientific Instruments, 2017, 88, 105003. | 1.3 | 9 |