Peiran Zhang

List of Publications by Year
in descending order

36 papers	1,704 citations	257450 24 h-index	414414 32 g-index
36 all docs	36 docs citations	36 times ranked	1550 citing authors

#	Article	IF	Citations
1	Acoustofluidic multimodal diagnostic system for Alzheimer's disease. Biosensors and Bioelectronics, 2022, 196, 113730.	10.1	31
2	Acoustofluidic black holes for multifunctional in-droplet particle manipulation. Science Advances, 2022, 8, eabm2592.	10.3	17
3	Acoustofluidics for simultaneous nanoparticle-based drug loading and exosome encapsulation. Microsystems and Nanoengineering, 2022, 8, 45.	7.0	27
4	A sound approach to advancing healthcare systems: the future of biomedical acoustics. Nature Communications, 2022, 13, .	12.8	25
5	Acoustohydrodynamic tweezers via spatial arrangement of streaming vortices. Science Advances, 2021, 7, .	10.3	34
6	Acoustofluidic rotational tweezing enables high-speed contactless morphological phenotyping of zebrafish larvae. Nature Communications, 2021, 12, 1118.	12.8	49
7	Acoustoelectronic nanotweezers enable dynamic and large-scale control of nanomaterials. Nature Communications, 2021, 12, 3844.	12.8	22
8	Acoustofluidic centrifuge for nanoparticle enrichment and separation. Science Advances, 2021, 7, .	10.3	100
9	Acoustofluidic multi-well plates for enrichment of micro/nano particles and cells. Lab on A Chip, 2020, 20, 3399-3409.	6.0	33
10	Deterministic droplet codingviaacoustofluidics. Lab on A Chip, 2020, 20, 4466-4473.	6.0	11
11	Generating multifunctional acoustic tweezers in Petri dishes for contactless, precise manipulation of bioparticles. Science Advances, 2020, 6, .	10.3	59
12	Hardware Design and Fault-Tolerant Synthesis for Digital Acoustofluidic Biochips. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1065-1078.	4.0	6
13	Acoustofluidicsâ€Assisted Fluorescenceâ€SERS Bimodal Biosensors. Small, 2020, 16, e2005179.	10.0	68
14	Acoustic streaming vortices enable contactless, digital control of droplets. Science Advances, 2020, 6, eaba0606.	10.3	42
15	Acoustic Microfluidics. Annual Review of Analytical Chemistry, 2020, 13, 17-43.	5.4	173
16	Acoustofluidic Holography for Micro- to Nanoscale Particle Manipulation. ACS Nano, 2020, 14, 14635-14645.	14.6	62
17	A disposable acoustofluidic chip for nano/microparticle separation using unidirectional acoustic transducers. Lab on A Chip, 2020, 20, 1298-1308.	6.0	76
18	A Cell-Phone-Based Acoustofluidic Platform for Quantitative Point-of-Care Testing. ACS Nano, 2020, 14, 3159-3169.	14.6	36

#	Article	IF	Citations
19	Acoustofluidics-Assisted Engineering of Multifunctional Three-Dimensional Zinc Oxide Nanoarrays. ACS Nano, 2020, 14, 6150-6163.	14.6	56
20	Acoustic tweezers based on circular, slanted-finger interdigital transducers for dynamic manipulation of micro-objects. Lab on A Chip, 2020, 20, 987-994.	6.0	32
21	Acoustic Cell Separation Based on Density and Mechanical Properties. Journal of Biomechanical Engineering, 2020, 142, .	1.3	31
22	Contactless, programmable acoustofluidic manipulation of objects on water. Lab on A Chip, 2019, 19, 3397-3404.	6.0	30
23	Wave numberâ€“spiral acoustic tweezers for dynamic and reconfigurable manipulation of particles and cells. Science Advances, 2019, 5, eaau6062.	10.3	146
24	Surface acoustic waves enable rotational manipulation of Caenorhabditis elegans. Lab on A Chip, 2019, 19, 984-992.	6.0	69
25	Structural Test and Functional Test for Digital Acoustofluidic Biochips. , 2019, , .		1
26	Hardware Design and Experimental Demonstrations for Digital Acoustofluidic Biochips. , 2019, , .		2
27	Acoustofluidic devices controlled by cell phones. Lab on A Chip, 2018, 18, 433-441.	6.0	32
28	Fluorescence-Activated Cell Sorters: Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter (Small 40/2018). Small, 2018, 14, 1870185.	10.0	2
29	Standing Surface Acoustic Wave (SSAW)â€Based Fluorescenceâ€Activated Cell Sorter. Small, 2018, 14, e1801996.	10.0	83
30	Digital acoustofluidics enables contactless and programmable liquid handling. Nature Communications, 2018, 9, 2928.	12.8	134
31	Inter-digital transducers activated acoustic streaming in viscous liquid. Journal of the Acoustical Society of America, 2018, 143, 1753-1753.	1.1	0
32	Raman-Activated Cell Sorting Based on Dielectrophoretic Single-Cell Trap and Release. Analytical Chemistry, 2015, 87, 2282-2289.	6.5	126
33	Floating Escherichia coli by expressing cyanobacterial gas vesicle genes. Journal of Ocean University of China, 2015, 14, 84-88.	1.2	3
34	Single-Cell Biotechnology for Uncultured Microorganisms. Springer Protocols, 2015, , 119-131.	0.3	0
35	Towards high-throughput microfluidic Raman-activated cell sorting. Analyst, The, 2015, 140, 6163-6174.	3.5	67
36	On-demand control of microfluidic flow via capillary-tuned solenoid microvalve suction. Lab on A Chip, 2014, 14, 4599-4603.	6.0	19