Liqiang Ren

List of Publications by Year
in descending order

30 papers	2,280 citations	257101 24 h-index	476904 29 g-index
30 all docs	30 docs citations	30 times ranked	2646 citing authors

#	Article	IF	Citations
1	Three-dimensional manipulation of single cells using surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1522-1527.	3.3	448
2	3D steerable, acoustically powered microswimmers for single-particle manipulation. Science Advances, 2019, 5, eaax3084.	4.7	199
3	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. Lab on A Chip, 2016, 16, 2636-2643.	3.1	147
4	Rheotaxis of Bimetallic Micromotors Driven by Chemicalâ€“Acoustic Hybrid Power. ACS Nano, 2017, 11, 10591-10598.	7.3	135
5	Digital acoustofluidics enables contactless and programmable liquid handling. Nature Communications, 2018, 9, 2928.	5.8	134
6	A high-throughput acoustic cell sorter. Lab on A Chip, 2015, 15, 3870-3879.	3.1	126
7	High-throughput acoustic separation of platelets from whole blood. Lab on A Chip, 2016, 16, 3466-3472.	3.1	106
8	Acoustic Separation of Nanoparticles in Continuous Flow. Advanced Functional Materials, 2017, 27, 1606039.	7.8	106
9	Two Forces Are Better than One: Combining Chemical and Acoustic Propulsion for Enhanced Micromotor Functionality. Accounts of Chemical Research, 2018, 51, 1948-1956.	7.6	93
10	Standing Surface Acoustic Wave (SSAW)â€Based Fluorescenceâ€Activated Cell Sorter. Small, 2018, 14, e1801996.	5.2	83
11	Acoustofluidic Fluorescence Activated Cell Sorter. Analytical Chemistry, 2015, 87, 12051-12058.	3.2	76
12	Experimental and numerical studies on standing surface acoustic wave microfluidics. Lab on A Chip, 2016, 16, 515-524.	3.1	73
13	Reusable acoustic tweezers for disposable devices. Lab on A Chip, 2015, 15, 4517-4523.	3.1	60
14	Coupled optofluidic ring laser for ultrahigh- sensitive sensing. Optics Express, 2011, 19, 22242.	1.7	59
15	Visible light-driven, magnetically steerable gold/iron oxide nanomotors. Chemical Communications, 2017, 53, 11465-11468.	2.2	59
16	Visible-light driven Siâ€“Au micromotors in water and organic solvents. Nanoscale, 2017, 9, 11434-11438.	2.8	53
17	An acoustofluidic sputum liquefier. Lab on A Chip, 2015, 15, 3125-3131.	3.1	51
18	Acoustically Driven Fluid and Particle Motion in Confined and Leaky Systems. Physical Review Applied, 2018, 9, .	1.5	38

#	Article	IF	Citations
19	Ultrasensitive label-free coupled optofluidic ring laser sensor. Optics Letters, 2012, 37, 3873.	1.7	34
20	Acoustic Cell Separation Based on Density and Mechanical Properties. Journal of Biomechanical Engineering, 2020, 142, .	0.6	31
21	Contactless, programmable acoustofluidic manipulation of objects on water. Lab on A Chip, 2019, 19, 3397-3404.	3.1	30
22	Acoustofluidic Transfer of Inflammatory Cells from Human Sputum Samples. Analytical Chemistry, 2016, 88, 5655-5661.	3.2	28
23	Hybrid Dielectric-loaded Nanoridge Plasmonic Waveguide for Low-Loss Light Transmission at the Subwavelength Scale. Scientific Reports, 2017, 7, 40479.	1.6	26
24	Acoustofluidic waveguides for localized control of acoustic wavefront in microfluidics. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	25
25	Thin Film PZT-Based PMUT Arrays for Deterministic Particle Manipulation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1606-1615.	1.7	20
26	High-Sensitivity Optofluidic Sensor Based on Coupled Liquid-Core Laser. IEEE Photonics Technology Letters, 2017, 29, 639-642.	1.3	16
27	Point-of-Care Technologies for the Advancement of Precision Medicine in Heart, Lung, Blood, and Sleep Disorders. IEEE Journal of Translational Engineering in Health and Medicine, 2016, 4, 1-10.	2.2	10
28	Separation: Acoustic Separation of Nanoparticles in Continuous Flow (Adv. Funct. Mater. 14/2017). Advanced Functional Materials, 2017, 27, .	7.8	10
29	Fluorescence-Activated Cell Sorters: Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter (Small 40/2018). Small, 2018, 14, 1870185.	5.2	2
30	Ultrasound-Powered Micro-/Nanorobots: Fundamentals and Biomedical Applications. , 2022, , 29-60.		2