Mengxi Wu

List of Publications by Year
in descending order

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		257450	361022
37	2,627	24	35
papers	citations	h-index	g-index

41	41	41	3226
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Harmonic acoustics for dynamic and selective particle manipulation. Nature Materials, 2022, 21, 540-546.	27.5	66
2	Acoustofluidic separation enables early diagnosis of traumatic brain injury based on circulating exosomes. Microsystems and Nanoengineering, 2021, 7, 20.	7.0	22
3	Ultrasensitive Multiparameter Phenotyping of Rare Cells Using an Integrated Digitalâ€Molecularâ€Counting Microfluidic Well Plate. Small, 2021, 17, e2101743.	10.0	4
4	Acoustofluidic Salivary Exosome Isolation. Journal of Molecular Diagnostics, 2020, 22, 50-59.	2.8	104
5	A disposable acoustofluidic chip for nano/microparticle separation using unidirectional acoustic transducers. Lab on A Chip, 2020, 20, 1298-1308.	6.0	76
6	Acoustic Cell Separation Based on Density and Mechanical Properties. Journal of Biomechanical Engineering, 2020, 142, .	1.3	31
7	Acoustofluidic Synthesis of Particulate Nanomaterials. Advanced Science, 2019, 6, 1900913.	11.2	49
8	Plastic-based acoustofluidic devices for high-throughput, biocompatible platelet separation. Lab on A Chip, 2019, 19, 394-402.	6.0	34
9	Wave numberâ€“spiral acoustic tweezers for dynamic and reconfigurable manipulation of particles and cells. Science Advances, 2019, 5, eaau6062.	10.3	146
10	Acoustofluidic separation of cells and particles. Microsystems and Nanoengineering, 2019, 5, 32.	7.0	268
11	Separating extracellular vesicles and lipoproteinsviaacoustofluidics. Lab on A Chip, 2019, 19, 1174-1182.	6.0	81
12	Clinical utility of non-EpCAM based circulating tumor cell assays. Advanced Drug Delivery Reviews, 2018, 125, 132-142.	13.7	26
13	Fluorescence-Activated Cell Sorters: Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter (Small 40/2018). Small, 2018, 14, 1870185.	10.0	2
14	Parametric optimization of electric field strength for cancer electrochemotherapy on a chip-based model. Theranostics, 2018, 8, 358-368.	10.0	9
15	Standing Surface Acoustic Wave (SSAW)â€Based Fluorescenceâ€Activated Cell Sorter. Small, 2018, 14, e1801996.	10.0	83
16	Circulating Tumor Cell Phenotyping via Highâ€Throughput Acoustic Separation. Small, 2018, 14, e1801131.	10.0	115
17	High-throughput cell focusing and separation via acoustofluidic tweezers. Lab on A Chip, 2018, 18, 3003-3010.	6.0	55
18	Enriching Nanoparticles via Acoustofluidics. ACS Nano, 2017, 11, 603-612.	14.6	142

#	Article	IF	Citations
19	Acoustic Separation of Nanoparticles in Continuous Flow. Advanced Functional Materials, 2017, 27, 1606039.	14.9	106
20	Separation: Acoustic Separation of Nanoparticles in Continuous Flow (Adv. Funct. Mater. 14/2017). Advanced Functional Materials, 2017, 27, .	14.9	10
21	Isolation of exosomes from whole blood by integrating acoustics and microfluidics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10584-10589.	7.1	633
22	Mixing high-viscosity fluids via acoustically driven bubbles. Journal of Micromechanics and Microengineering, 2017, 27, .	2.6	3
23	High-throughput acoustic separation of platelets from whole blood. Lab on A Chip, 2016, 16, 3466-3472.	6.0	106
24	Electroporation on microchips: the harmful effects of pH changes and scaling down. Scientific Reports, 2016, 5, 17817.	3.3	42
25	Acoustofluidic coating of particles and cells. Lab on A Chip, 2016, 16, 4366-4372.	6.0	27
26	A Flow-Through Cell Electroporation Device for Rapidly and Efficiently Transfecting Massive Amounts of Cells in vitro and ex vivo. Scientific Reports, 2016, 6, 18469.	3.3	37
27	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. Lab on A Chip, 2016, 16, 2636-2643.	6.0	147
28	Reusable acoustic tweezers for disposable devices. Lab on A Chip, 2015, 15, 4517-4523.	6.0	60
29	A flow-through electroporation device utilizing Dean Vortex to enhance cell viability. , 2015, , .		2
30	A symmetrical hyperbolic formatted microchip for rapid optimization of electroporation. , 2013, , .		1
31	Method for Electric Parametric Characterization and Optimization of Electroporation on a Chip. Analytical Chemistry, 2013, 85, 4483-4491.	6.5	9
32	High-density distributed electrode network, a multi-functional electroporation method for delivery of molecules of different sizes. Scientific Reports, 2013, 3, 3370.	3.3	14
33	A microchip for in vitro parameter determination of cancer electrochemotherapy. , 2013, , .		3
34	An efficient and high-throughput electroporation microchip applicable for siRNA delivery. Lab on A Chip, 2011, 11, 163-172.	6.0	56
35	A portable and high efficiency system for cell electroporation under low voltage. , 2011, , .		1
36	A Laminar Flow Electroporation System for Efficient DNA and siRNA Delivery. Analytical Chemistry, 2011, 83, 5881-5887.	6.5	48

#	Article	IF	Citations
37	Microfluidic freeâ€flow paper electrochromatography for continuous separation of glycans. ChemElectroChem, 0, , .	3.4	0