Mengxi Wu

List of Publications by Year
in descending order

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41 papers	2,681 citations	257450 24 h-index	361022 35 g-index
45 all docs	45 docs citations	45 times ranked	3351 citing authors

#	Article	IF	Citations
1	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
2	Acoustofluidic separation of cells and particles. Microsystems and Nanoengineering, 2019, 5, 32.	7.0	268
3	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. Lab on A Chip, 2016, 16, 2636-2643.	6.0	147
4	Wave numberâ€“spiral acoustic tweezers for dynamic and reconfigurable manipulation of particles and cells. Science Advances, 2019, 5, eaau6062.	10.3	146
5	Enriching Nanoparticles via Acoustofluidics. ACS Nano, 2017, 11, 603-612.	14.6	142
6	Circulating Tumor Cell Phenotyping via Highâ€Throughput Acoustic Separation. Small, 2018, 14, e1801131.	10.0	115
7	High-throughput acoustic separation of platelets from whole blood. Lab on A Chip, 2016, 16, 3466-3472.	6.0	106
8	Acoustic Separation of Nanoparticles in Continuous Flow. Advanced Functional Materials, 2017, 27, 1606039.	14.9	106
9	Standing Surface Acoustic Wave (SSAW)â€Based Fluorescenceâ€Activated Cell Sorter. Small, 2018, 14, e1801996.	10.0	83
10	Separating extracellular vesicles and lipoproteinsviaacoustofluidics. Lab on A Chip, 2019, 19, 1174-1182.	6.0	81
11	A disposable acoustofluidic chip for nano/microparticle separation using unidirectional acoustic transducers. Lab on A Chip, 2020, 20, 1298-1308.	6.0	76
12	Recent Advances in Software Tools for More Generic and Precise Intact Glycopeptide Analysis. Molecular and Cellular Proteomics, 2021, 20, 100060.	3.8	71
13	Harmonic acoustics for dynamic and selective particle manipulation. Nature Materials, 2022, 21, 540-546.	27.5	66
14	Reusable acoustic tweezers for disposable devices. Lab on A Chip, 2015, 15, 4517-4523.	6.0	60
15	An efficient and high-throughput electroporation microchip applicable for siRNA delivery. Lab on A Chip, 2011, 11, 163-172.	6.0	56
16	High-throughput cell focusing and separation via acoustofluidic tweezers. Lab on A Chip, 2018, 18, 3003-3010.	6.0	55
17	Acoustofluidic Synthesis of Particulate Nanomaterials. Advanced Science, 2019, 6, 1900913.	11.2	49
18	A Laminar Flow Electroporation System for Efficient DNA and siRNA Delivery. Analytical Chemistry, 2011, 83, 5881-5887.	6.5	48

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19	Electroporation on microchips: the harmful effects of pH changes and scaling down. Scientific Reports, 2016, 5, 17817.	3.3	42
20	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
21	A Superâ€Stretchable and Highly Sensitive Carbon Nanotube Capacitive Strain Sensor for Wearable Applications and Soft Robotics. Advanced Materials Technologies, 2022, 7, 2100769.	5.8	36
22	Plastic-based acoustofluidic devices for high-throughput, biocompatible platelet separation. Lab on A Chip, 2019, 19, 394-402.	6.0	34
23	Effective Enrichment Strategy Using Boronic Acid-Functionalized Mesoporous Grapheneâ€“Silica Composites for Intact N- and O-Linked Glycopeptide Analysis in Human Serum. Analytical Chemistry, 2021, 93, 6682-6691.	6.5	29
24	Acoustofluidic coating of particles and cells. Lab on A Chip, 2016, 16, 4366-4372.	6.0	27
25	Clinical utility of non-EpCAM based circulating tumor cell assays. Advanced Drug Delivery Reviews, 2018, 125, 132-142.	13.7	26
26	GproDIA enables data-independent acquisition glycoproteomics with comprehensive statistical control. Nature Communications, 2021, 12, 6073.	12.8	23
27	Acoustofluidic separation enables early diagnosis of traumatic brain injury based on circulating exosomes. Microsystems and Nanoengineering, 2021, 7, 20.	7.0	22
28	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
29	A multi-parallel N-glycopeptide enrichment strategy for high-throughput and in-depth mapping of the N-glycoproteome in metastatic human hepatocellular carcinoma cell lines. Talanta, 2019, 199, 254-261.	5.5	12
30	OGP: A Repository of Experimentally Characterized O-glycoproteins to Facilitate Studies on O-glycosylation. Genomics, Proteomics and Bioinformatics, 2021, 19, 611-618.	6.9	12
31	An ultrafast and highly efficient enrichment method for both N-Glycopeptides and N-Glycans by bacterial cellulose. Analytica Chimica Acta, 2020, 1140, 60-68.	5.4	10
32	Method for Electric Parametric Characterization and Optimization of Electroporation on a Chip. Analytical Chemistry, 2013, 85, 4483-4491.	6.5	9
33	Parametric optimization of electric field strength for cancer electrochemotherapy on a chip-based model. Theranostics, 2018, 8, 358-368.	10.0	9
34	Development of a Computational Tool for Automated Interpretation of Intact O-Glycopeptide Tandem Mass Spectra from Single Proteins. Analytical Chemistry, 2020, 92, 6777-6784.	6.5	9
35	3D ICE printing as a fabrication technology of microfluidics with pre-sealed reagents. , 2014, , .		7
36	Ultrasensitive Multiparameter Phenotyping of Rare Cells Using an Integrated Digitalâ€Molecularâ€Counting Microfluidic Well Plate. Small, 2021, 17, e2101743.	10.0	4

#	Article	IF	Citations
37	A microchip for in vitro parameter determination of cancer electrochemotherapy. , 2013, , .		3
38	A flow-through electroporation device utilizing Dean Vortex to enhance cell viability. , 2015, , .		2
39	A portable and high efficiency system for cell electroporation under low voltage. , 2011, , .		1
40	A symmetrical hyperbolic formatted microchip for rapid optimization of electroporation. , 2013, , .		1
41	Microfluidic freeâ€flow paper electrochromatography for continuous separation of glycans. ChemElectroChem, 0, , .	3.4	0