Feng Guo

List of Publications by Citations

76 papers	4,098 citations	36 h-index	63 g-index
80 ext. papers	5,020 ext. citations	8 avg, IF	5.31 L-index

#	Paper	IF	Citations
76	Surface acoustic wave microfluidics. *Lab on A Chip*, **2013**, 13, 3626-49	7.2	546
75	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, 1522-7	11.5	318
74	Acoustic tweezers for the life sciences. *Nature Methods*, **2018**, 15, 1021-1028	21.6	291
73	Controlling cell-cell interactions using surface acoustic waves. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 43-8	11.5	247
72	Microfluidic synthesis of multifunctional Janus particles for biomedical applications. *Lab on A Chip*, **2012**, 12, 2097-102	7.2	152
71	An on-chip, multichannel droplet sorter using standing surface acoustic waves. *Analytical Chemistry*, **2013**, 85, 5468-74	7.8	123
70	Tunable nanowire patterning using standing surface acoustic waves. *ACS Nano*, **2013**, 7, 3306-14	16.7	119
69	A rapid pathway toward a superb gene delivery system: programming structural and functional diversity into a supramolecular nanoparticle library. *ACS Nano*, **2010**, 4, 6235-43	16.7	113
68	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. *Lab on A Chip*, **2016**, 16, 2636-43	7.2	106
67	A high-throughput acoustic cell sorter. *Lab on A Chip*, **2015**, 15, 3870-3879	7.2	104
66	Accelerating drug discovery via organs-on-chips. *Lab on A Chip*, **2013**, 13, 4697-710	7.2	101
65	Theory and experiment on particle trapping and manipulation via optothermally generated bubbles. *Lab on A Chip*, **2014**, 14, 384-91	7.2	99
64	Digital acoustofluidics enables contactless and programmable liquid handling. *Nature Communications*, **2018**, 9, 2928	17.4	96
63	Microfluidic Hydrodynamic Focusing for Synthesis of Nanomaterials. *Nano Today*, **2016**, 11, 778-792	17.9	95
62	Standing surface acoustic wave (SSAW)-based cell washing. *Lab on A Chip*, **2015**, 15, 331-8	7.2	66
61	Droplet electric separator microfluidic device for cell sorting. *Applied Physics Letters*, **2010**, 96, 193701	3.4	66
60	Optofluidic imaging: now and beyond. *Lab on A Chip*, **2013**, 13, 17-24	7.2	64

59	On-demand preparation of quantum dot-encoded microparticles using a droplet microfluidic system. *Lab on A Chip*, **2011**, 11, 2561-8	7.2	60
58	Standing surface acoustic wave based cell coculture. *Analytical Chemistry*, **2014**, 86, 9853-9	7.8	59
57	Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers. *Advanced Materials*, **2016**, 28, 8632-8638	24	57
56	Probing cell-cell communication with microfluidic devices. *Lab on A Chip*, **2013**, 13, 3152-62	7.2	55
55	Experimental and numerical studies on standing surface acoustic wave microfluidics. *Lab on A Chip*, **2016**, 16, 515-24	7.2	54
54	High-throughput acoustofluidic fabrication of tumor spheroids. *Lab on A Chip*, **2019**, 19, 1755-1763	7.2	51
53	One-Stop Microfluidic Assembly of Human Brain Organoids To Model Prenatal Cannabis Exposure. *Analytical Chemistry*, **2020**, 92, 4630-4638	7.8	51
52	A droplet-based, optofluidic device for high-throughput, quantitative bioanalysis. *Analytical Chemistry*, **2012**, 84, 10745-9	7.8	47
51	Generation of disk-like hydrogel beads for cell encapsulation and manipulation using a droplet-based microfluidic device. *Microfluidics and Nanofluidics*, **2012**, 13, 761-767	2.8	46
50	Microneedle Patch-Mediated Treatment of Bacterial Biofilms. *ACS Applied Materials & Interfaces*, **2019**, 11, 14640-14646	9.5	45
49	Gelatin Nanoparticle-Coated Silicon Beads for Density-Selective Capture and Release of Heterogeneous Circulating Tumor Cells with High Purity. *Theranostics*, **2018**, 8, 1624-1635	12.1	45
48	Sub-micrometer-precision, three-dimensional (3D) hydrodynamic focusing via "microfluidic drifting". *Lab on A Chip*, **2014**, 14, 415-23	7.2	45
47	Optoacoustic tweezers: a programmable, localized cell concentrator based on opto-thermally generated, acoustically activated, surface bubbles. *Lab on A Chip*, **2013**, 13, 1772-1779	7.2	44
46	Reusable acoustic tweezers for disposable devices. *Lab on A Chip*, **2015**, 15, 4517-23	7.2	42
45	Valve-based microfluidic device for droplet on-demand operation and static assay. *Applied Physics Letters*, **2010**, 97, 233701	3.4	42
44	Single-Cell Virology: On-Chip Investigation of Viral Infection Dynamics. *Cell Reports*, **2017**, 21, 1692-1704	10.6	41
43	Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. *Small*, **2015**, 11, 2733-7	11	41
42	Electrochemically Created Highly Surface Roughened Ag Nanoplate Arrays for SERS Biosensing Applications. *Journal of Materials Chemistry C*, **2014**, 2, 8350-8356	7.1	40

41	Efficient Purification and Release of Circulating Tumor Cells by Synergistic Effect of Biomarker and SiO2 @Gel-Microbead-Based Size Difference Amplification. *Advanced Healthcare Materials*, **2016**, 5, 1554-9	10.1	38
40	Superhydrophobic Surface Enhanced Raman Scattering Sensing using Janus Particle Arrays Realized by Site-Specific Electrochemical Growth. *Journal of Materials Chemistry C*, **2014**, 2014, 542-547	7.1	33
39	Integrated parallel microfluidic device for simultaneous preparation of multiplex optical-encoded microbeads with distinct quantum dot barcodes. *Journal of Materials Chemistry*, **2011**, 21, 13380		31
38	Acoustic assembly of cell spheroids in disposable capillaries. *Nanotechnology*, **2018**, 29, 504006	3.4	29
37	Fetal nucleated red blood cell analysis for non-invasive prenatal diagnostics using a nanostructure microchip. *Journal of Materials Chemistry B*, **2017**, 5, 226-235	7.3	25
36	A digital microfluidic droplet generator produces self-assembled supramolecular nanoparticles for targeted cell imaging. *Nanotechnology*, **2010**, 21, 445603	3.4	25
35	Modeling organ-specific vasculature with organ-on-a-chip devices. *Nanotechnology*, **2019**, 30, 024002	3.4	24
34	Microfluidic-Based 18F-Labeling of Biomolecules for Immuno-Positron Emission Tomography. *Molecular Imaging*, **2011**, 10, 7290.2010.00043	3.7	20
33	Controllable fusion of human brain organoids using acoustofluidics. *Lab on A Chip*, **2021**, 21, 688-699	7.2	20
32	Contactless, programmable acoustofluidic manipulation of objects on water. *Lab on A Chip*, **2019**, 19, 3397-3404	7.2	19
31	Label-free measurements of reaction kinetics using a droplet-based optofluidic device. *Journal of the Association for Laboratory Automation*, **2015**, 20, 17-24		19
30	Acoustofluidic waveguides for localized control of acoustic wavefront in microfluidics. *Microfluidics and Nanofluidics*, **2017**, 21, 1	2.8	19
29	Hybrid Dielectric-loaded Nanoridge Plasmonic Waveguide for Low-Loss Light Transmission at the Subwavelength Scale. *Scientific Reports*, **2017**, 7, 40479	4.9	18
28	Acoustofluidic assembly of 3D neurospheroids to model Alzheimer's disease. *Analyst, The*, **2020**, 145, 6243-6253	5	17
27	A Digital Acoustofluidic Pump Powered by Localized Fluid-Substrate Interactions. *Analytical Chemistry*, **2019**, 91, 7097-7103	7.8	16
26	Disk-like hydrogel bead-based immunofluorescence staining toward identification and observation of circulating tumor cells. *Microfluidics and Nanofluidics*, **2014**, 16, 29-37	2.8	16
25	A digital acoustofluidic device for on-demand and oil-free droplet generation. *Nanotechnology*, **2019**, 30, 084001	3.4	14
24	Highly sensitive and rapid isolation of fetal nucleated red blood cells with microbead-based selective sedimentation for non-invasive prenatal diagnostics. *Nanotechnology*, **2018**, 29, 434001	3.4	13

23	Size-amplified acoustofluidic separation of circulating tumor cells with removable microbeads. *Nano Futures*, **2018**, 2, 025004	3.6	12
22	Rapid Microfluidic Formation of Uniform Patient-Derived Breast Tumor Spheroids.. *ACS Applied Bio Materials*, **2020**, 3, 6273-6283	4.1	12
21	Immunological analyses of whole blood via "microfluidic drifting" based flow cytometric chip. *Annals of Biomedical Engineering*, **2014**, 42, 2303-13	4.7	11
20	Intelligent acoustofluidics enabled mini-bioreactors for human brain organoids. *Lab on A Chip*, **2021**, 21, 2194-2205	7.2	11
19	A novel method for generation of amphiphilic PDMS particles by selective modification. *Microfluidics and Nanofluidics*, **2011**, 10, 453-458	2.8	10
18	Trapping cell spheroids and organoids using digital acoustofluidics. *Biofabrication*, **2020**, 12, 035025	10.5	10
17	Profiling Cell-Matrix Adhesion Using Digitalized Acoustic Streaming. *Analytical Chemistry*, **2020**, 92, 2283-2290	7.8	10
16	Laminar flow mediated continuous single-cell analysis on a novel poly(dimethylsiloxane) microfluidic chip. *Analytica Chimica Acta*, **2014**, 820, 104-11	6.6	9
15	Acoustic disruption of tumor endothelium and on-demand drug delivery for cancer chemotherapy. *Nanotechnology*, **2019**, 30, 154001	3.4	8
14	An organoid-based screen for epigenetic inhibitors that stimulate antigen presentation and potentiate T-cell-mediated cytotoxicity. *Nature Biomedical Engineering*, **2021**, 5, 1320-1335	19	6
13	Tubular human brain organoids to model microglia-mediated neuroinflammation. *Lab on A Chip*, **2021**, 21, 2751-2762	7.2	6
12	Human Spinal Organoid-on-a-Chip to Model Nociceptive Circuitry for Pain Therapeutics Discovery.. *Analytical Chemistry*, **2021**,	7.8	6
11	Metabolomic analysis of exosomal-markers in esophageal squamous cell carcinoma. *Nanoscale*, **2021**, 13, 16457-16464	7.7	5
10	Microfluidic Printing of Tunable Hollow Microfibers for Vascular Tissue Engineering. *Advanced Materials Technologies*, **2021**, 6, 2000683	6.8	4
9	Lysophosphatidylcholine induces apoptosis and inflammatory damage in brain microvascular endothelial cells via GPR4-mediated NLRP3 inflammasome activation. *Toxicology in Vitro*, **2021**, 77, 105227	3.6	4
8	Crystallography: Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves (Small 23/2015). *Small*, **2015**, 11, 2710-2710	11	1
7	One-stop Microfluidic Assembly of Human Brain Organoids to Model Prenatal Cannabis Exposure		1
6	Acoustofluidic Assembly of 3D Neurospheroids to Model Alzheimer□ Disease		1

5	Rapid Profiling of Tumor-Immune Interaction Using Acoustically Assembled Patient-Derived Cell Clusters. *Advanced Science*,2201478	13.6	1
4	Chapter 5:Manipulation of Micro-/Nano-Objects via Surface Acoustic Waves. *RSC Detection Science*, **2014**, 136-152	0.4	0
3	Chapter 15:Lab-on-a-chip Technologies Enabled by Surface Acoustic Waves354-398		
2	Microfluidic Droplet Detection **2014**, 1-6		
1	Hydrogels: Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers (Adv. Mater. 39/2016). *Advanced Materials*, **2016**, 28, 8556-8556	24	