

# Feng Guo

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1965902/feng-guo-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	An organoid-based screen for epigenetic inhibitors that stimulate antigen presentation and potentiate T-cell-mediated cytotoxicity. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 1320-1335	19	6
75	Microfluidic Printing of Tunable Hollow Microfibers for Vascular Tissue Engineering. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000683	6.8	4
74	Metabolomic analysis of exosomal-markers in esophageal squamous cell carcinoma. <i>Nanoscale</i> , <b>2021</b> , 13, 16457-16464	7.7	5
73	Controllable fusion of human brain organoids using acoustofluidics. <i>Lab on A Chip</i> , <b>2021</b> , 21, 688-699	7.2	20
72	Tubular human brain organoids to model microglia-mediated neuroinflammation. <i>Lab on A Chip</i> , <b>2021</b> , 21, 2751-2762	7.2	6
71	Lysophosphatidylcholine induces apoptosis and inflammatory damage in brain microvascular endothelial cells via GPR4-mediated NLRP3 inflammasome activation. <i>Toxicology in Vitro</i> , <b>2021</b> , 77, 105227	3.6	4
70	Intelligent acoustofluidics enabled mini-bioreactors for human brain organoids. <i>Lab on A Chip</i> , <b>2021</b> , 21, 2194-2205	7.2	11
69	Human Spinal Organoid-on-a-Chip to Model Nociceptive Circuitry for Pain Therapeutics Discovery.. <i>Analytical Chemistry</i> , <b>2021</b> ,	7.8	6
68	One-Stop Microfluidic Assembly of Human Brain Organoids To Model Prenatal Cannabis Exposure. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4630-4638	7.8	51
67	Trapping cell spheroids and organoids using digital acoustofluidics. <i>Biofabrication</i> , <b>2020</b> , 12, 035025	10.5	10
66	Profiling Cell-Matrix Adhesion Using Digitalized Acoustic Streaming. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2283-2290	7.2	10
65	Rapid Microfluidic Formation of Uniform Patient-Derived Breast Tumor Spheroids.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 6273-6283	4.1	12
64	Acoustofluidic assembly of 3D neurospheroids to model Alzheimer's disease. <i>Analyst, The</i> , <b>2020</b> , 145, 6243-6253	5	17
63	Contactless, programmable acoustofluidic manipulation of objects on water. <i>Lab on A Chip</i> , <b>2019</b> , 19, 3397-3404	7.2	19
62	A Digital Acoustofluidic Pump Powered by Localized Fluid-Substrate Interactions. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7097-7103	7.8	16
61	High-throughput acoustofluidic fabrication of tumor spheroids. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1755-1763	7.2	51
60	Microneedle Patch-Mediated Treatment of Bacterial Biofilms. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14640-14646	9.5	45

59	Acoustic disruption of tumor endothelium and on-demand drug delivery for cancer chemotherapy. <i>Nanotechnology</i> , <b>2019</b> , 30, 154001	3.4	8
58	Modeling organ-specific vasculature with organ-on-a-chip devices. <i>Nanotechnology</i> , <b>2019</b> , 30, 024002	3.4	24
57	A digital acoustofluidic device for on-demand and oil-free droplet generation. <i>Nanotechnology</i> , <b>2019</b> , 30, 084001	3.4	14
56	Gelatin Nanoparticle-Coated Silicon Beads for Density-Selective Capture and Release of Heterogeneous Circulating Tumor Cells with High Purity. <i>Theranostics</i> , <b>2018</b> , 8, 1624-1635	12.1	45
55	Digital acoustofluidics enables contactless and programmable liquid handling. <i>Nature Communications</i> , <b>2018</b> , 9, 2928	17.4	96
54	Size-amplified acoustofluidic separation of circulating tumor cells with removable microbeads. <i>Nano Futures</i> , <b>2018</b> , 2, 025004	3.6	12
53	Highly sensitive and rapid isolation of fetal nucleated red blood cells with microbead-based selective sedimentation for non-invasive prenatal diagnostics. <i>Nanotechnology</i> , <b>2018</b> , 29, 434001	3.4	13
52	Acoustic tweezers for the life sciences. <i>Nature Methods</i> , <b>2018</b> , 15, 1021-1028	21.6	291
51	Acoustic assembly of cell spheroids in disposable capillaries. <i>Nanotechnology</i> , <b>2018</b> , 29, 504006	3.4	29
50	Hybrid Dielectric-loaded Nanoridge Plasmonic Waveguide for Low-Loss Light Transmission at the Subwavelength Scale. <i>Scientific Reports</i> , <b>2017</b> , 7, 40479	4.9	18
49	Fetal nucleated red blood cell analysis for non-invasive prenatal diagnostics using a nanostructure microchip. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 226-235	7.3	25
48	Acoustofluidic waveguides for localized control of acoustic wavefront in microfluidics. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1	2.8	19
47	Single-Cell Virology: On-Chip Investigation of Viral Infection Dynamics. <i>Cell Reports</i> , <b>2017</b> , 21, 1692-1704	10.6	41
46	Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers. <i>Advanced Materials</i> , <b>2016</b> , 28, 8632-8638	24	57
45	Microfluidic Hydrodynamic Focusing for Synthesis of Nanomaterials. <i>Nano Today</i> , <b>2016</b> , 11, 778-792	17.9	95
44	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2636-43	7.2	106
43	Three-dimensional manipulation of single cells using surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1522-7	11.5	318
42	Experimental and numerical studies on standing surface acoustic wave microfluidics. <i>Lab on A Chip</i> , <b>2016</b> , 16, 515-24	7.2	54

41	Efficient Purification and Release of Circulating Tumor Cells by Synergistic Effect of Biomarker and SiO <sub>2</sub> @Gel-Microbead-Based Size Difference Amplification. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1554-9	10.1	38
40	Hydrogels: Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers (Adv. Mater. 39/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 8556-8556		24
39	Reusable acoustic tweezers for disposable devices. <i>Lab on A Chip</i> , <b>2015</b> , 15, 4517-23	7.2	42
38	Controlling cell-cell interactions using surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 43-8	11.5	247
37	Label-free measurements of reaction kinetics using a droplet-based optofluidic device. <i>Journal of the Association for Laboratory Automation</i> , <b>2015</b> , 20, 17-24		19
36	Crystallography: Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves (Small 23/2015). <i>Small</i> , <b>2015</b> , 11, 2710-2710	11	1
35	Standing surface acoustic wave (SSAW)-based cell washing. <i>Lab on A Chip</i> , <b>2015</b> , 15, 331-8	7.2	66
34	A high-throughput acoustic cell sorter. <i>Lab on A Chip</i> , <b>2015</b> , 15, 3870-3879	7.2	104
33	Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. <i>Small</i> , <b>2015</b> , 11, 2733-7	11	41
32	Theory and experiment on particle trapping and manipulation via optothermally generated bubbles. <i>Lab on A Chip</i> , <b>2014</b> , 14, 384-91	7.2	99
31	Superhydrophobic Surface Enhanced Raman Scattering Sensing using Janus Particle Arrays Realized by Site-Specific Electrochemical Growth. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2014, 542-547	7.1	33
30	Sub-micrometer-precision, three-dimensional (3D) hydrodynamic focusing via "microfluidic drifting". <i>Lab on A Chip</i> , <b>2014</b> , 14, 415-23	7.2	45
29	Electrochemically Created Highly Surface Roughened Ag Nanoplate Arrays for SERS Biosensing Applications. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8350-8356	7.1	40
28	Standing surface acoustic wave based cell coculture. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9853-9	7.8	59
27	Laminar flow mediated continuous single-cell analysis on a novel poly(dimethylsiloxane) microfluidic chip. <i>Analytica Chimica Acta</i> , <b>2014</b> , 820, 104-11	6.6	9
26	Immunological analyses of whole blood via "microfluidic drifting" based flow cytometric chip. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 2303-13	4.7	11
25	Chapter 5: Manipulation of Micro-/Nano-Objects via Surface Acoustic Waves. <i>RSC Detection Science</i> , <b>2014</b> , 136-152	0.4	0
24	Disk-like hydrogel bead-based immunofluorescence staining toward identification and observation of circulating tumor cells. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 16, 29-37	2.8	16

23	Microfluidic Droplet Detection <b>2014</b> , 1-6		
22	Probing cell-cell communication with microfluidic devices. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3152-62	7.2	55
21	Surface acoustic wave microfluidics. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3626-49	7.2	546
20	Optofluidic imaging: now and beyond. <i>Lab on A Chip</i> , <b>2013</b> , 13, 17-24	7.2	64
19	Accelerating drug discovery via organs-on-chips. <i>Lab on A Chip</i> , <b>2013</b> , 13, 4697-710	7.2	101
18	An on-chip, multichannel droplet sorter using standing surface acoustic waves. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5468-74	7.8	123
17	Optoacoustic tweezers: a programmable, localized cell concentrator based on opto-thermally generated, acoustically activated, surface bubbles. <i>Lab on A Chip</i> , <b>2013</b> , 13, 1772-1779	7.2	44
16	Tunable nanowire patterning using standing surface acoustic waves. <i>ACS Nano</i> , <b>2013</b> , 7, 3306-14	16.7	119
15	Generation of disk-like hydrogel beads for cell encapsulation and manipulation using a droplet-based microfluidic device. <i>Microfluidics and Nanofluidics</i> , <b>2012</b> , 13, 761-767	2.8	46
14	A droplet-based, optofluidic device for high-throughput, quantitative bioanalysis. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 10745-9	7.8	47
13	Microfluidic synthesis of multifunctional Janus particles for biomedical applications. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2097-102	7.2	152
12	On-demand preparation of quantum dot-encoded microparticles using a droplet microfluidic system. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2561-8	7.2	60
11	Microfluidic-Based <sup>18</sup> F-Labeling of Biomolecules for ImmunoPositron Emission Tomography. <i>Molecular Imaging</i> , <b>2011</b> , 10, 7290.2010.00043	3.7	20
10	A novel method for generation of amphiphilic PDMS particles by selective modification. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 10, 453-458	2.8	10
9	Integrated parallel microfluidic device for simultaneous preparation of multiplex optical-encoded microbeads with distinct quantum dot barcodes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 13380		31
8	Valve-based microfluidic device for droplet on-demand operation and static assay. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 233701	3.4	42
7	A digital microfluidic droplet generator produces self-assembled supramolecular nanoparticles for targeted cell imaging. <i>Nanotechnology</i> , <b>2010</b> , 21, 445603	3.4	25
6	Droplet electric separator microfluidic device for cell sorting. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 193701	3.4	66

5	A rapid pathway toward a superb gene delivery system: programming structural and functional diversity into a supramolecular nanoparticle library. <i>ACS Nano</i> , <b>2010</b> , 4, 6235-43	16.7	113
4	Chapter 15: Lab-on-a-chip Technologies Enabled by Surface Acoustic Waves	354-398	
3	One-stop Microfluidic Assembly of Human Brain Organoids to Model Prenatal Cannabis Exposure		1
2	Acoustofluidic Assembly of 3D Neurospheroids to Model Alzheimer's Disease		1
1	Rapid Profiling of Tumor-Immune Interaction Using Acoustically Assembled Patient-Derived Cell Clusters. <i>Advanced Science</i> , 2201478	13.6	1