

# Po-Hsun Huang

## List of Publications by Year in descending order

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57  
papers

4,903  
citations

94433

37  
h-index

138484

58  
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61  
all docs

61  
docs citations

61  
times ranked

5241  
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic acoustics for dynamic and selective particle manipulation. <i>Nature Materials</i> , 2022, 21, 540-546.	27.5	66
2	Fabrication of tunable, high-molecular-weight polymeric nanoparticles <i>via</i> ultrafast acoustofluidic micromixing. <i>Lab on A Chip</i> , 2021, 21, 2453-2463.	6.0	27
3	Electrochemical micro-aptasensors for exosome detection based on hybridization chain reaction amplification. <i>Microsystems and Nanoengineering</i> , 2021, 7, 63.	7.0	38
4	Acoustofluidic Holography for Micro- to Nanoscale Particle Manipulation. <i>ACS Nano</i> , 2020, 14, 14635-14645.	14.6	62
5	Low-frequency flexural wave based microparticle manipulation. <i>Lab on A Chip</i> , 2020, 20, 1281-1289.	6.0	21
6	A disposable acoustofluidic chip for nano/microparticle separation using unidirectional acoustic transducers. <i>Lab on A Chip</i> , 2020, 20, 1298-1308.	6.0	76
7	An acoustofluidic device for efficient mixing over a wide range of flow rates. <i>Lab on A Chip</i> , 2020, 20, 1238-1248.	6.0	56
8	Fluorescence-based sorting of <i>Caenorhabditis elegans</i> <i>via</i> acoustofluidics. <i>Lab on A Chip</i> , 2020, 20, 1729-1739.	6.0	27
9	Acoustofluidic Synthesis of Particulate Nanomaterials. <i>Advanced Science</i> , 2019, 6, 1900913.	11.2	49
10	Contactless, programmable acoustofluidic manipulation of objects on water. <i>Lab on A Chip</i> , 2019, 19, 3397-3404.	6.0	30
11	On-chip stool liquefaction <i>via</i> acoustofluidics. <i>Lab on A Chip</i> , 2019, 19, 941-947.	6.0	38
12	Plastic-based acoustofluidic devices for high-throughput, biocompatible platelet separation. <i>Lab on A Chip</i> , 2019, 19, 394-402.	6.0	34
13	Open source acoustofluidics. <i>Lab on A Chip</i> , 2019, 19, 2404-2414.	6.0	28
14	Wave numberâ€”spiral acoustic tweezers for dynamic and reconfigurable manipulation of particles and cells. <i>Science Advances</i> , 2019, 5, eaau6062.	10.3	146
15	Surface acoustic waves enable rotational manipulation of <i>Caenorhabditis elegans</i> . <i>Lab on A Chip</i> , 2019, 19, 984-992.	6.0	69
16	Separating extracellular vesicles and lipoproteins <i>via</i> acoustofluidics. <i>Lab on A Chip</i> , 2019, 19, 1174-1182.	6.0	81
17	Cell lysis <i>via</i> acoustically oscillating sharp edges. <i>Lab on A Chip</i> , 2019, 19, 4021-4032.	6.0	47
18	A sharp-edge-based acoustofluidic chemical signal generator. <i>Lab on A Chip</i> , 2018, 18, 1411-1421.	6.0	48

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19	Acoustofluidic devices controlled by cell phones. Lab on A Chip, 2018, 18, 433-441.	6.0	32
20	Three-dimensional numerical simulation and experimental investigation of boundary-driven streaming in surface acoustic wave microfluidics. Lab on A Chip, 2018, 18, 3645-3654.	6.0	36
21	Fluorescence-Activated Cell Sorters: Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter (Small 40/2018). Small, 2018, 14, 1870185.	10.0	2
22	Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter. Small, 2018, 14, e1801996.	10.0	83
23	Circulating Tumor Cell Phenotyping via High-Throughput Acoustic Separation. Small, 2018, 14, e1801131.	10.0	115
24	Digital acoustofluidics enables contactless and programmable liquid handling. Nature Communications, 2018, 9, 2928.	12.8	134
25	High-throughput cell focusing and separation via acoustofluidic tweezers. Lab on A Chip, 2018, 18, 3003-3010.	6.0	55
26	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
27	Probing Cell Deformability via Acoustically Actuated Bubbles. Small, 2016, 12, 902-910.	10.0	60
28	Investigation of micromixing by acoustically oscillated sharp-edges. Biomicrofluidics, 2016, 10, 024124.	2.4	96
29	Acoustofluidic Transfer of Inflammatory Cells from Human Sputum Samples. Analytical Chemistry, 2016, 88, 5655-5661.	6.5	28
30	Hydrogels: Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers (Adv. Mater. 39/2016). Advanced Materials, 2016, 28, 8556-8556.	21.0	0
31	Acoustofluidics: Acoustofluidic Rotational Manipulation of Cells and Organisms Using Oscillating Solid Structures (Small 37/2016). Small, 2016, 12, 5230-5230.	10.0	14
32	Acoustofluidic Rotational Manipulation of Cells and Organisms Using Oscillating Solid Structures. Small, 2016, 12, 5120-5125.	10.0	95
33	Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers. Advanced Materials, 2016, 28, 8632-8638.	21.0	78
34	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.	3.7	10
35	Experimental and numerical studies on standing surface acoustic wave microfluidics. Lab on A Chip, 2016, 16, 515-524.	6.0	73
36	A high-throughput acoustic cell sorter. Lab on A Chip, 2015, 15, 3870-3879.	6.0	126

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37	An acoustofluidic sputum liquefier. <i>Lab on A Chip</i> , 2015, 15, 3125-3131.	6.0	51
38	Acoustic separation of circulating tumor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4970-4975.	7.1	632
39	A spatiotemporally controllable chemical gradient generator via acoustically oscillating sharp-edge structures. <i>Lab on A Chip</i> , 2015, 15, 4166-4176.	6.0	49
40	Standing surface acoustic wave (SSAW)-based microfluidic cytometer. <i>Lab on A Chip</i> , 2014, 14, 916-923.	6.0	106
41	Rare cell isolation and analysis in microfluidics. <i>Lab on A Chip</i> , 2014, 14, 626.	6.0	273
42	Investigation of acoustic streaming patterns around oscillating sharp edges. <i>Lab on A Chip</i> , 2014, 14, 2824-2836.	6.0	126
43	Superhydrophobic surface enhanced Raman scattering sensing using Janus particle arrays realized by site-specific electrochemical growth. <i>Journal of Materials Chemistry C</i> , 2014, 2, 542-547.	5.5	41
44	A reliable and programmable acoustofluidic pump powered by oscillating sharp-edge structures. <i>Lab on A Chip</i> , 2014, 14, 4319-4323.	6.0	152
45	<i>In Situ</i> Fabrication of 3D Ag@ZnO Nanostructures for Microfluidic Surface-Enhanced Raman Scattering Systems. <i>ACS Nano</i> , 2014, 8, 12175-12184.	14.6	106
46	An acoustofluidic micromixer based on oscillating sidewall sharp-edges. <i>Lab on A Chip</i> , 2013, 13, 3847.	6.0	220
47	Accelerating drug discovery via organs-on-chips. <i>Lab on A Chip</i> , 2013, 13, 4697.	6.0	117
48	Tunable Nanowire Patterning Using Standing Surface Acoustic Waves. <i>ACS Nano</i> , 2013, 7, 3306-3314.	14.6	142
49	Bubble-free replication of large area microstructures using gas-assisted UV embossing with modified reversal imprinting and gap-retained vacuuming. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 031602.	1.2	1
50	A single-layer, planar, optofluidic switch powered by acoustically driven, oscillating microbubbles. <i>Applied Physics Letters</i> , 2012, 101, 141101.	3.3	35
51	Complete reversal imprinting for fabricating microlens arrays with faithful shape replication. <i>Journal of Vacuum Science &amp; Technology B</i> , 2009, 27, 2781.	1.3	4
52	Direct fabrication of microstructures on metal roller using stepped rotating lithography and electroless nickel plating. <i>Microelectronic Engineering</i> , 2009, 86, 615-618.	2.4	37
53	Fabrication of microlens arrays using UV micro-stamping with soft roller and gas-pressurized platform. <i>Microelectronic Engineering</i> , 2008, 85, 603-609.	2.4	32
54	Fast fabrication of integrated surface-relief and particle-diffusing plastic diffuser by use of a hybrid extrusion roller embossing process. <i>Optics Express</i> , 2008, 16, 440.	3.4	42

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55	Fabrication of large area resin microlens arrays using gas-assisted ultraviolet embossing. Optics Express, 2008, 16, 3041.	3.4	61
56	Large-area and thin light guide plates fabricated using UV-based imprinting. Optics Express, 2008, 16, 15033.	3.4	31
57	Direct fabrication of rigid microstructures on a metallic roller using a dry film resist. Journal of Micromechanics and Microengineering, 2008, 18, 015004.	2.6	25