

Tony Jun Huang

List of Publications by Year in Descending Order

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

281
papers

19,028
citations

74
h-index

129
g-index

325
ext. papers

22,374
ext. citations

8.9
avg, IF

6.89
L-index

#	Paper	IF	Citations
281	Ring-shaped photoacoustic tweezers for single particle manipulation.. <i>Optics Letters</i> , 2022 , 47, 826-829	3	0
280	Acoustic Tweezers for Single-Cell Manipulation 2022 , 1051-1077		
279	Acoustofluidic multimodal diagnostic system for Alzheimer's disease. <i>Biosensors and Bioelectronics</i> , 2022 , 196, 113730	11.8	7
278	Sonoporation: Past, Present, and Future.. <i>Advanced Materials Technologies</i> , 2022 , 7,	6.8	4
277	Fundamentals and applications of acoustics in microfluidics 2022 , 297-321		0
276	Harmonic acoustics for dynamic and selective particle manipulation.. <i>Nature Materials</i> , 2022 ,	27	15
275	Acoustofluidic black holes for multifunctional in-droplet particle manipulation.. <i>Science Advances</i> , 2022 , 8, eabm2592	14.3	3
274	Acoustofluidics for biomedical applications. <i>Nature Reviews Methods Primers</i> , 2022 , 2,		11
273	Acoustofluidics for simultaneous nanoparticle-based drug loading and exosome encapsulation.. <i>Microsystems and Nanoengineering</i> , 2022 , 8, 45	7.7	3
272	Biomimetic apposition compound eye fabricated using microfluidic-assisted 3D printing. <i>Nature Communications</i> , 2021 , 12, 6458	17.4	9
271	Acoustofluidic Droplet Sorter Based on Single Phase Focused Transducers. <i>Small</i> , 2021 , 17, e2103848	11	1
270	Calcium Peroxide Nanoparticles-Embedded Coatings on Anti-Inflammatory TiO Nanotubes for Bacteria Elimination and Inflammatory Environment Amelioration. <i>Small</i> , 2021 , 17, e2102907	11	4
269	Acoustofluidic separation enables early diagnosis of traumatic brain injury based on circulating exosomes. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 20	7.7	4
268	Acoustoelectronic nanotweezers enable dynamic and large-scale control of nanomaterials. <i>Nature Communications</i> , 2021 , 12, 3844	17.4	5
267	Acoustohydrodynamic tweezers via spatial arrangement of streaming vortices. <i>Science Advances</i> , 2021 , 7,	14.3	15
266	Fabrication of tunable, high-molecular-weight polymeric nanoparticles ultrafast acoustofluidic micromixing. <i>Lab on A Chip</i> , 2021 , 21, 2453-2463	7.2	9
265	Electrically Tunable Surface Acoustic Wave Propagation at MHz Frequencies Based on Carbon Nanotube Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2021 , 31, 2010744	15.6	3

264	Acoustofluidic rotational tweezing enables high-speed contactless morphological phenotyping of zebrafish larvae. <i>Nature Communications</i> , 2021 , 12, 1118	17.4	20
263	Acoustic tweezer with complex boundary-free trapping and transport channel controlled by shadow waveguides. <i>Science Advances</i> , 2021 , 7,	14.3	7
262	Electrochemical micro-aptasensors for exosome detection based on hybridization chain reaction amplification. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 63	7.7	7
261	A multifunctional hydrogel coating to direct fibroblast activation and infected wound healing via simultaneously controllable photobiomodulation and photodynamic therapies. <i>Biomaterials</i> , 2021 , 278, 121164	15.6	10
260	Enzymatically-degradable hydrogel coatings on titanium for bacterial infection inhibition and enhanced soft tissue compatibility a self-adaptive strategy. <i>Bioactive Materials</i> , 2021 , 6, 4670-4685	16.7	1
259	Acoustofluidic centrifuge for nanoparticle enrichment and separation. <i>Science Advances</i> , 2021 , 7,	14.3	36
258	Acoustofluidics-Assisted Fluorescence-SERS Bimodal Biosensors. <i>Small</i> , 2020 , 16, e2005179	11	28
257	Acoustic streaming vortices enable contactless, digital control of droplets. <i>Science Advances</i> , 2020 , 6, eaba0606	14.3	22
256	Acoustic Microfluidics. <i>Annual Review of Analytical Chemistry</i> , 2020 , 13, 17-43	12.5	59
255	Acoustofluidic Holography for Micro- to Nanoscale Particle Manipulation. <i>ACS Nano</i> , 2020 , 14, 14635-14645	14.7	25
254	Acoustofluidic Scanning Nanoscope with High Resolution and Large Field of View. <i>ACS Nano</i> , 2020 , 14, 8624-8633	16.7	7
253	Low-frequency flexural wave based microparticle manipulation. <i>Lab on A Chip</i> , 2020 , 20, 1281-1289	7.2	12
252	A disposable acoustofluidic chip for nano/microparticle separation using unidirectional acoustic transducers. <i>Lab on A Chip</i> , 2020 , 20, 1298-1308	7.2	38
251	Dispersion tuning and route reconfiguration of acoustic waves in valley topological phononic crystals. <i>Nature Communications</i> , 2020 , 11, 762	17.4	58
250	An acoustofluidic device for efficient mixing over a wide range of flow rates. <i>Lab on A Chip</i> , 2020 , 20, 1238-1248	7.2	26
249	A Cell-Phone-Based Acoustofluidic Platform for Quantitative Point-of-Care Testing. <i>ACS Nano</i> , 2020 , 14, 3159-3169	16.7	21
248	Acoustofluidics-Assisted Engineering of Multifunctional Three-Dimensional Zinc Oxide Nanoarrays. <i>ACS Nano</i> , 2020 , 14, 6150-6163	16.7	21
247	Acoustofluidic sonoporation for gene delivery to human hematopoietic stem and progenitor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10976-10982	11.5	35

246	Acoustic Cell Separation Based on Density and Mechanical Properties. <i>Journal of Biomechanical Engineering</i> , 2020 , 142,	2.1	17
245	Acoustic Tweezers for Single-Cell Manipulation 2020 , 1-27		
244	Acoustic Tweezers for Single-Cell Manipulation 2020 , 1-27		2
243	Acoustic tweezers based on circular, slanted-finger interdigital transducers for dynamic manipulation of micro-objects. <i>Lab on A Chip</i> , 2020 , 20, 987-994	7.2	21
242	Acoustofluidic Salivary Exosome Isolation: A Liquid Biopsy Compatible Approach for Human Papillomavirus-Associated Oropharyngeal Cancer Detection. <i>Journal of Molecular Diagnostics</i> , 2020 , 22, 50-59	5.1	50
241	Microfluidic Isolation and Enrichment of Nanoparticles. <i>ACS Nano</i> , 2020 ,	16.7	15
240	Acidic Submucosal Gland pH and Elevated Protein Concentration Produce Abnormal Cystic Fibrosis Mucus. <i>Developmental Cell</i> , 2020 , 54, 488-500.e5	10.2	12
239	Acoustofluidic multi-well plates for enrichment of micro/nano particles and cells. <i>Lab on A Chip</i> , 2020 , 20, 3399-3409	7.2	14
238	Deterministic droplet coding acoustofluidics. <i>Lab on A Chip</i> , 2020 , 20, 4466-4473	7.2	1
237	Generating multifunctional acoustic tweezers in Petri dishes for contactless, precise manipulation of bioparticles. <i>Science Advances</i> , 2020 , 6,	14.3	29
236	Hardware Design and Fault-Tolerant Synthesis for Digital Acoustofluidic Biochips. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020 , 14, 1065-1078	5.1	4
235	Fluorescence-based sorting of <i>Caenorhabditis elegans</i> via acoustofluidics. <i>Lab on A Chip</i> , 2020 , 20, 1729-1739	7.2	15
234	Acoustofluidic Synthesis of Particulate Nanomaterials. <i>Advanced Science</i> , 2019 , 6, 1900913	13.6	32
233	Colour compound lenses for a portable fluorescence microscope. <i>Light: Science and Applications</i> , 2019 , 8, 75	16.7	33
232	Contactless, programmable acoustofluidic manipulation of objects on water. <i>Lab on A Chip</i> , 2019 , 19, 3397-3404	7.2	19
231	On-chip stool liquefaction via acoustofluidics. <i>Lab on A Chip</i> , 2019 , 19, 941-947	7.2	26
230	Plastic-based acoustofluidic devices for high-throughput, biocompatible platelet separation. <i>Lab on A Chip</i> , 2019 , 19, 394-402	7.2	21
229	Open source acoustofluidics. <i>Lab on A Chip</i> , 2019 , 19, 2404-2414	7.2	19

228	Wave number-spiral acoustic tweezers for dynamic and reconfigurable manipulation of particles and cells. <i>Science Advances</i> , 2019 , 5, eaau6062	14.3	98
227	Acoustofluidic separation of cells and particles. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 32	7.7	143
226	Programmable Acoustic Metasurfaces. <i>Advanced Functional Materials</i> , 2019 , 29, 1808489	15.6	83
225	Surface acoustic waves enable rotational manipulation of <i>Caenorhabditis elegans</i> . <i>Lab on A Chip</i> , 2019 , 19, 984-992	7.2	39
224	Acoustofluidic methods in cell analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 117, 280-290	14.6	27
223	Comment on "Ghost cytometry". <i>Science</i> , 2019 , 364,	33.3	3
222	Separating extracellular vesicles and lipoproteins via acoustofluidics. <i>Lab on A Chip</i> , 2019 , 19, 1174-1182	7.2	49
221	Structural Test and Functional Test for Digital Acoustofluidic Biochips 2019 ,		1
220	Hardware Design and Experimental Demonstrations for Digital Acoustofluidic Biochips 2019 ,		1
219	Cell lysis via acoustically oscillating sharp edges. <i>Lab on A Chip</i> , 2019 , 19, 4021-4032	7.2	28
218	Applications of Acoustofluidics in Bioanalytical Chemistry. <i>Analytical Chemistry</i> , 2019 , 91, 757-767	7.8	52
217	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800420	6.8	53
216	A sharp-edge-based acoustofluidic chemical signal generator. <i>Lab on A Chip</i> , 2018 , 18, 1411-1421	7.2	32
215	Clinical utility of non-EpCAM based circulating tumor cell assays. <i>Advanced Drug Delivery Reviews</i> , 2018 , 125, 132-142	18.5	16
214	Acoustically Driven Fluid and Particle Motion in Confined and Leaky Systems. <i>Physical Review Applied</i> , 2018 , 9,	4.3	29
213	Acoustofluidic devices controlled by cell phones. <i>Lab on A Chip</i> , 2018 , 18, 433-441	7.2	28
212	Digital acoustofluidics enables contactless and programmable liquid handling. <i>Nature Communications</i> , 2018 , 9, 2928	17.4	96
211	High-throughput cell focusing and separation via acoustofluidic tweezers. <i>Lab on A Chip</i> , 2018 , 18, 3003-3010	7.2	32

210	Acoustic Actuation of Fabricated Artificial Cilia. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28,	2	21
209	Three-dimensional numerical simulation and experimental investigation of boundary-driven streaming in surface acoustic wave microfluidics. <i>Lab on A Chip</i> , 2018 , 18, 3645-3654	7.2	19
208	Acoustic tweezers for the life sciences. <i>Nature Methods</i> , 2018 , 15, 1021-1028	21.6	291
207	Electrodeposition: Electrocarving during Electrodeposition Growth (Adv. Mater. 51/2018). <i>Advanced Materials</i> , 2018 , 30, 1870395	24	6
206	Fluorescence-Activated Cell Sorters: Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter (Small 40/2018). <i>Small</i> , 2018 , 14, 1870185	11	2
205	Electrocarving during Electrodeposition Growth. <i>Advanced Materials</i> , 2018 , 30, e1805686	24	16
204	Microfluidic approaches for cell-based molecular diagnosis. <i>Biomicrofluidics</i> , 2018 , 12, 051501	3.2	4
203	Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter. <i>Small</i> , 2018 , 14, e18011996	62	
202	Circulating Tumor Cell Phenotyping via High-Throughput Acoustic Separation. <i>Small</i> , 2018 , 14, e180113111	71	
201	Enriching Nanoparticles via Acoustofluidics. <i>ACS Nano</i> , 2017 , 11, 603-612	16.7	103
200	Acoustofluidic bacteria separation. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27,	2	52
199	Acoustic Separation of Nanoparticles in Continuous Flow. <i>Advanced Functional Materials</i> , 2017 , 27, 16060396	75	
198	Hybrid Dielectric-loaded Nanoridge Plasmonic Waveguide for Low-Loss Light Transmission at the Subwavelength Scale. <i>Scientific Reports</i> , 2017 , 7, 40479	4.9	18
197	Separation: Acoustic Separation of Nanoparticles in Continuous Flow (Adv. Funct. Mater. 14/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	8
196	Fetal nucleated red blood cell analysis for non-invasive prenatal diagnostics using a nanostructure microchip. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 226-235	7.3	25
195	Acoustic actuation of bioinspired microswimmers. <i>Lab on A Chip</i> , 2017 , 17, 395-400	7.2	85
194	Rheotaxis of Bimetallic Micromotors Driven by Chemical-Acoustic Hybrid Power. <i>ACS Nano</i> , 2017 , 11, 10591-10598	16.7	102
193	Isolation of exosomes from whole blood by integrating acoustics and microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10584-10589	11.5	405

192	Acoustofluidic waveguides for localized control of acoustic wavefront in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	19
191	Acoustic streaming: an arbitrary Lagrangian-Eulerian perspective. <i>Journal of Fluid Mechanics</i> , 2017 , 825, 600-630	3.7	15
190	Single-Cell Virology: On-Chip Investigation of Viral Infection Dynamics. <i>Cell Reports</i> , 2017 , 21, 1692-1704	10.6	41
189	Mixing high-viscosity fluids via acoustically driven bubbles. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 015008	2	39
188	A nanowell-based QCM aptasensor for rapid and sensitive detection of avian influenza virus. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 934-940	8.5	51
187	Mixing high-viscosity fluids via acoustically driven bubbles. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27,	2	2
186	Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers. <i>Advanced Materials</i> , 2016 , 28, 8632-8638	24	57
185	Point-of-Care Technologies for the Advancement of Precision Medicine in Heart, Lung, Blood, and Sleep Disorders. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2016 , 4, 2800510	3	8
184	Rotational manipulation of single cells and organisms using acoustic waves. <i>Nature Communications</i> , 2016 , 7, 11085	17.4	253
183	Microfluidic Hydrodynamic Focusing for Synthesis of Nanomaterials. <i>Nano Today</i> , 2016 , 11, 778-792	17.9	95
182	Acoustofluidic coating of particles and cells. <i>Lab on A Chip</i> , 2016 , 16, 4366-4372	7.2	19
181	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. <i>Lab on A Chip</i> , 2016 , 16, 2636-43	7.2	106
180	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> , 2016 , 113, 1522-7	11.5	318
179	Spatial colocalization and functional link of purinosomes with mitochondria. <i>Science</i> , 2016 , 351, 733-7	33.3	106
178	Experimental and numerical studies on standing surface acoustic wave microfluidics. <i>Lab on A Chip</i> , 2016 , 16, 515-24	7.2	54
177	On-Chip Production of Size-Controllable Liquid Metal Microdroplets Using Acoustic Waves. <i>Small</i> , 2016 , 12, 3861-9	11	60
176	Probing Cell Deformability via Acoustically Actuated Bubbles. <i>Small</i> , 2016 , 12, 902-10	11	42
175	Investigation of micromixing by acoustically oscillated sharp-edges. <i>Biomicrofluidics</i> , 2016 , 10, 024124	3.2	59

174	Acoustofluidic Transfer of Inflammatory Cells from Human Sputum Samples. <i>Analytical Chemistry</i> , 2016 , 88, 5655-61	7.8	22
173	Hydrogels: Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers (Adv. Mater. 39/2016). <i>Advanced Materials</i> , 2016 , 28, 8556-8556	24	
172	Acoustofluidics: Acoustofluidic Rotational Manipulation of Cells and Organisms Using Oscillating Solid Structures (Small 37/2016). <i>Small</i> , 2016 , 12, 5230-5230	11	12
171	High-throughput acoustic separation of platelets from whole blood. <i>Lab on A Chip</i> , 2016 , 16, 3466-72	7.2	68
170	Rapid detection of avian influenza virus H5N1 in chicken tracheal samples using an impedance aptasensor with gold nanoparticles for signal amplification. <i>Journal of Virological Methods</i> , 2016 , 236, 147-156	2.6	46
169	Acoustofluidic Rotational Manipulation of Cells and Organisms Using Oscillating Solid Structures. <i>Small</i> , 2016 , 12, 5120-5125	11	56
168	Acoustofluidic actuation of in situ fabricated microrotors. <i>Lab on A Chip</i> , 2016 , 16, 3532-7	7.2	37
167	Selectively manipulable acoustic-powered microswimmers. <i>Scientific Reports</i> , 2015 , 5, 9744	4.9	123
166	An acoustofluidic sputum liquefier. <i>Lab on A Chip</i> , 2015 , 15, 3125-31	7.2	42
165	Sink or swim: using density as a signal for quantitative immunoassays. <i>Lab on A Chip</i> , 2015 , 15, 958	7.2	
164	Acoustic separation of circulating tumor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4970-5	11.5	497
163	Reusable acoustic tweezers for disposable devices. <i>Lab on A Chip</i> , 2015 , 15, 4517-23	7.2	42
162	Acoustofluidic Fluorescence Activated Cell Sorter. <i>Analytical Chemistry</i> , 2015 , 87, 12051-8	7.8	61
161	A spatiotemporally controllable chemical gradient generator via acoustically oscillating sharp-edge structures. <i>Lab on A Chip</i> , 2015 , 15, 4166-76	7.2	39
160	Controlling cell-cell interactions using surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 43-8	11.5	247
159	Label-free measurements of reaction kinetics using a droplet-based optofluidic device. <i>Journal of the Association for Laboratory Automation</i> , 2015 , 20, 17-24		19
158	Crystallography: Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves (Small 23/2015). <i>Small</i> , 2015 , 11, 2710-2710	11	1
157	Plasmofluidics: Plasmofluidics: Merging Light and Fluids at the Micro-/Nanoscale (Small 35/2015). <i>Small</i> , 2015 , 11, 4422-4422	11	1

156	Acousto-plasmodfluidics: Acoustic modulation of surface plasmon resonance in microfluidic systems. <i>AIP Advances</i> , 2015 , 5, 097161	1.5	8
155	Exploring bubble oscillation and mass transfer enhancement in acoustic-assisted liquid-liquid extraction with a microfluidic device. <i>Scientific Reports</i> , 2015 , 5, 12572	4.9	24
154	Plasmodfluidics: Merging Light and Fluids at the Micro-/Nanoscale. <i>Small</i> , 2015 , 11, 4423-44	11	51
153	Standing surface acoustic wave (SSAW)-based cell washing. <i>Lab on A Chip</i> , 2015 , 15, 331-8	7.2	66
152	Numerical study of acoustophoretic motion of particles in a PDMS microchannel driven by surface acoustic waves. <i>Lab on A Chip</i> , 2015 , 15, 2700-9	7.2	112
151	A high-throughput acoustic cell sorter. <i>Lab on A Chip</i> , 2015 , 15, 3870-3879	7.2	104
150	Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. <i>Small</i> , 2015 , 11, 2733-7	11	41
149	Purinosome formation as a function of the cell cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1368-73	11.5	55
148	Standing surface acoustic wave (SSAW)-based microfluidic cytometer. <i>Lab on A Chip</i> , 2014 , 14, 916-23	7.2	89
147	Acoustic propulsion of nanorod motors inside living cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3201-4	16.4	229
146	Rare cell isolation and analysis in microfluidics. <i>Lab on A Chip</i> , 2014 , 14, 626-45	7.2	230
145	Continuous enrichment of low-abundance cell samples using standing surface acoustic waves (SSAW). <i>Lab on A Chip</i> , 2014 , 14, 924-30	7.2	79
144	Theory and experiment on particle trapping and manipulation via optothermally generated bubbles. <i>Lab on A Chip</i> , 2014 , 14, 384-91	7.2	99
143	Three-dimensional hydrodynamic focusing method for polyplex synthesis. <i>ACS Nano</i> , 2014 , 8, 332-9	16.7	42
142	Investigation of acoustic streaming patterns around oscillating sharp edges. <i>Lab on A Chip</i> , 2014 , 14, 2824-36	7.2	93
141	Superhydrophobic Surface Enhanced Raman Scattering Sensing using Janus Particle Arrays Realized by Site-Specific Electrochemical Growth. <i>Journal of Materials Chemistry C</i> , 2014 , 2014, 542-547	7.1	33
140	A reliable and programmable acoustofluidic pump powered by oscillating sharp-edge structures. <i>Lab on A Chip</i> , 2014 , 14, 4319-23	7.2	113
139	Cell separation using tilted-angle standing surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12992-7	11.5	309

138	In situ fabrication of 3D Ag@ZnO nanostructures for microfluidic surface-enhanced Raman scattering systems. <i>ACS Nano</i> , 2014 , 8, 12175-84	16.7	90
137	Sub-micrometer-precision, three-dimensional (3D) hydrodynamic focusing via "microfluidic drifting". <i>Lab on A Chip</i> , 2014 , 14, 415-23	7.2	45
136	Shape-controlled synthesis of hybrid nanomaterials via three-dimensional hydrodynamic focusing. <i>ACS Nano</i> , 2014 , 8, 10026-34	16.7	40
135	Self-powered glucose-responsive micropumps. <i>ACS Nano</i> , 2014 , 8, 8537-42	16.7	34
134	Electrochemically Created Highly Surface Roughened Ag Nanoplate Arrays for SERS Biosensing Applications. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8350-8356	7.1	40
133	Acoustic Propulsion of Nanorod Motors Inside Living Cells. <i>Angewandte Chemie</i> , 2014 , 126, 3265-3268	3.6	60
132	An acoustofluidic micromixer via bubble inception and cavitation from microchannel sidewalls. <i>Analytical Chemistry</i> , 2014 , 86, 5083-8	7.8	89
131	Standing surface acoustic wave based cell coculture. <i>Analytical Chemistry</i> , 2014 , 86, 9853-9	7.8	59
130	Dark-field illumination on zero-mode waveguide/microfluidic hybrid chip reveals T4 replisomal protein interactions. <i>Nano Letters</i> , 2014 , 14, 1952-60	11.5	22
129	Immunological analyses of whole blood via "microfluidic drifting" based flow cytometric chip. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 2303-13	4.7	11
128	A polystyrene-based microfluidic device with three-dimensional interconnected microporous walls for perfusion cell culture. <i>Biomicrofluidics</i> , 2014 , 8, 046505	3.2	18
127	Combining the Masking and Scaffolding Modalities of Colloidal Crystal Templates: Plasmonic Nanoparticle Arrays with Multiple Periodicities. <i>Chemistry of Materials</i> , 2014 , 26, 6432-6438	9.6	10
126	Chapter 5: Manipulation of Micro-/Nano-Objects via Surface Acoustic Waves. <i>RSC Detection Science</i> , 2014 , 136-152	0.4	0
125	Acoustofluidic chemical waveform generator and switch. <i>Analytical Chemistry</i> , 2014 , 86, 11803-10	7.8	42
124	Acoustofluidic relay: sequential trapping and transporting of microparticles via acoustically excited oscillating bubbles. <i>Journal of the Association for Laboratory Automation</i> , 2014 , 19, 137-43		22
123	An acoustofluidic micromixer based on oscillating sidewall sharp-edges. <i>Lab on A Chip</i> , 2013 , 13, 3847-52	7.2	156
122	Probing cell-cell communication with microfluidic devices. <i>Lab on A Chip</i> , 2013 , 13, 3152-62	7.2	55
121	A reconfigurable plasmofluidic lens. <i>Nature Communications</i> , 2013 , 4, 2305	17.4	105

120	Surface acoustic wave microfluidics. <i>Lab on A Chip</i> , 2013 , 13, 3626-49	7.2	546
119	Steering acoustically propelled nanowire motors toward cells in a biologically compatible environment using magnetic fields. <i>Langmuir</i> , 2013 , 29, 16113-8	4	92
118	Microfluidic opportunities in the field of nutrition. <i>Lab on A Chip</i> , 2013 , 13, 3993-4003	7.2	13
117	Tuning surface-enhanced Raman scattering from graphene substrates using the electric field effect and chemical doping. <i>Applied Physics Letters</i> , 2013 , 102, 11102	3.4	37
116	Tunable, pulsatile chemical gradient generation via acoustically driven oscillating bubbles. <i>Lab on A Chip</i> , 2013 , 13, 328-31	7.2	74
115	Optofluidic imaging: now and beyond. <i>Lab on A Chip</i> , 2013 , 13, 17-24	7.2	64
114	Accelerating drug discovery via organs-on-chips. <i>Lab on A Chip</i> , 2013 , 13, 4697-710	7.2	101
113	Unconventional microfluidics: expanding the discipline. <i>Lab on A Chip</i> , 2013 , 13, 1457-63	7.2	11
112	Lab-on-a-chip technologies for single-molecule studies. <i>Lab on A Chip</i> , 2013 , 13, 2183-98	7.2	34
111	An on-chip, multichannel droplet sorter using standing surface acoustic waves. <i>Analytical Chemistry</i> , 2013 , 85, 5468-74	7.8	123
110	Optoacoustic tweezers: a programmable, localized cell concentrator based on opto-thermally generated, acoustically activated, surface bubbles. <i>Lab on A Chip</i> , 2013 , 13, 1772-1779	7.2	44
109	Reflective plasmonic color filters based on lithographically patterned silver nanorod arrays. <i>Nanoscale</i> , 2013 , 5, 6243-8	7.7	130
108	Multifunctional porous silicon nanopillar arrays: antireflection, superhydrophobicity, photoluminescence, and surface-enhanced Raman scattering. <i>Nanotechnology</i> , 2013 , 24, 245704	3.4	65
107	Probing circulating tumor cells in microfluidics. <i>Lab on A Chip</i> , 2013 , 13, 602-9	7.2	145
106	Tunable nanowire patterning using standing surface acoustic waves. <i>ACS Nano</i> , 2013 , 7, 3306-14	16.7	119
105	Large-Scale Fabrication of Three-Dimensional Surface Patterns Using Template-Defined Electrochemical Deposition. <i>Advanced Functional Materials</i> , 2013 , 23, 720-730	15.6	65
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