Tony Jun Huang

List of Publications by Citations

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	Linear artificial molecular muscles. *Journal of the American Chemical Society*, **2005**, 127, 9745-59	16.4	617
280	On-chip manipulation of single microparticles, cells, and organisms using surface acoustic waves. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 11105-9	11.5	597
279	Surface acoustic wave microfluidics. *Lab on A Chip*, **2013**, 13, 3626-49	7.2	546
278	Acoustic tweezers: patterning cells and microparticles using standing surface acoustic waves (SSAW). *Lab on A Chip*, **2009**, 9, 2890-5	7.2	500
277	Acoustic separation of circulating tumor cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 4970-5	11.5	497
276	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	11.5	405
275	Continuous particle separation in a microfluidic channel via standing surface acoustic waves (SSAW). *Lab on A Chip*, **2009**, 9, 3354-9	7.2	371
274	Revisiting lab-on-a-chip technology for drug discovery. *Nature Reviews Drug Discovery*, **2012**, 11, 620-32	64.1	362
273	Focusing microparticles in a microfluidic channel with standing surface acoustic waves (SSAW). *Lab on A Chip*, **2008**, 8, 221-3	7.2	333
272	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
271	Cell separation using tilted-angle standing surface acoustic waves. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12992-7	11.5	309
270	Acoustic tweezers for the life sciences. *Nature Methods*, **2018**, 15, 1021-1028	21.6	291
269	A millisecond micromixer via single-bubble-based acoustic streaming. *Lab on A Chip*, **2009**, 9, 2738-41	7.2	267
268	Rotational manipulation of single cells and organisms using acoustic waves. *Nature Communications* , **2016**, 7, 11085	17.4	253
267	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
266	Polarization-independent dual-band infrared perfect absorber based on a metal-dielectric-metal elliptical nanodisk array. *Optics Express*, **2011**, 19, 15221-8	3.3	234
265	Rare cell isolation and analysis in microfluidics. *Lab on A Chip*, **2014**, 14, 626-45	7.2	230

264	Acoustic propulsion of nanorod motors inside living cells. *Angewandte Chemie - International Edition* , **2014**, 53, 3201-4	16.4	229
263	Gradient-index phononic crystals. *Physical Review B*, **2009**, 79,	3.3	220
262	A mechanical actuator driven electrochemically by artificial molecular muscles. *ACS Nano*, **2009**, 3, 291-306	10.7	220
261	Active molecular plasmonics: controlling plasmon resonances with molecular switches. *Nano Letters* , **2009**, 9, 819-25	11.5	191
260	A nanomechanical device based on linear molecular motors. *Applied Physics Letters*, **2004**, 85, 5391-5393	3.4	189
259	A fast microfluidic mixer based on acoustically driven sidewall-trapped microbubbles. *Microfluidics and Nanofluidics*, **2009**, 7, 727-731	2.8	186
258	Microfluidic diagnostics for the developing world. *Lab on A Chip*, **2012**, 12, 1412-6	7.2	181
257	Single-layer planar on-chip flow cytometer using microfluidic drifting based three-dimensional (3D) hydrodynamic focusing. *Lab on A Chip*, **2009**, 9, 1583-9	7.2	173
256	Surface acoustic wave (SAW) acoustophoresis: now and beyond. *Lab on A Chip*, **2012**, 12, 2766-70	7.2	159
255	An acoustofluidic micromixer based on oscillating sidewall sharp-edges. *Lab on A Chip*, **2013**, 13, 3847-52	7.2	156
254	Standing surface acoustic wave (SSAW) based multichannel cell sorting. *Lab on A Chip*, **2012**, 12, 4228-31	7.2	154
253	Microfluidic synthesis of multifunctional Janus particles for biomedical applications. *Lab on A Chip*, **2012**, 12, 2097-102	7.2	152
252	Three-dimensional continuous particle focusing in a microfluidic channel via standing surface acoustic waves (SSAW). *Lab on A Chip*, **2011**, 11, 2319-24	7.2	147
251	Probing circulating tumor cells in microfluidics. *Lab on A Chip*, **2013**, 13, 602-9	7.2	145
250	"Microfluidic drifting"--implementing three-dimensional hydrodynamic focusing with a single-layer planar microfluidic device. *Lab on A Chip*, **2007**, 7, 1260-2	7.2	145
249	Acoustofluidic separation of cells and particles. *Microsystems and Nanoengineering*, **2019**, 5, 32	7.7	143
248	Hydrodynamically tunable optofluidic cylindrical microlens. *Lab on A Chip*, **2007**, 7, 1303-8	7.2	138
247	Light-Driven Plasmonic Switches Based on Au Nanodisk Arrays and Photoresponsive Liquid Crystals. *Advanced Materials*, **2008**, 20, 3528-3532	24	136

246	Reflective plasmonic color filters based on lithographically patterned silver nanorod arrays. *Nanoscale*, **2013**, 5, 6243-8	7.7	130
245	Selectively manipulable acoustic-powered microswimmers. *Scientific Reports*, **2015**, 5, 9744	4.9	123
244	An on-chip, multichannel droplet sorter using standing surface acoustic waves. *Analytical Chemistry*, **2013**, 85, 5468-74	7.8	123
243	Tunable nanowire patterning using standing surface acoustic waves. *ACS Nano*, **2013**, 7, 3306-14	16.7	119
242	Focusing of the lowest antisymmetric Lamb wave in a gradient-index phononic crystal plate. *Applied Physics Letters*, **2011**, 98, 171911	3.4	117
241	A reliable and programmable acoustofluidic pump powered by oscillating sharp-edge structures. *Lab on A Chip*, **2014**, 14, 4319-23	7.2	113
240	Numerical study of acoustophoretic motion of particles in a PDMS microchannel driven by surface acoustic waves. *Lab on A Chip*, **2015**, 15, 2700-9	7.2	112
239	Tunable Liquid Gradient Refractive Index (L-GRIN) lens with two degrees of freedom. *Lab on A Chip*, **2009**, 9, 2050-8	7.2	107
238	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. *Lab on A Chip*, **2016**, 16, 2636-43	7.2	106
237	Spatial colocalization and functional link of purinosomes with mitochondria. *Science*, **2016**, 351, 733-7	33.3	106
236	A reconfigurable plasmofluidic lens. *Nature Communications*, **2013**, 4, 2305	17.4	105
235	A high-throughput acoustic cell sorter. *Lab on A Chip*, **2015**, 15, 3870-3879	7.2	104
234	Tunable patterning of microparticles and cells using standing surface acoustic waves. *Lab on A Chip*, **2012**, 12, 2491-7	7.2	104
233	Enriching Nanoparticles via Acoustofluidics. *ACS Nano*, **2017**, 11, 603-612	16.7	103
232	Rheotaxis of Bimetallic Micromotors Driven by Chemical-Acoustic Hybrid Power. *ACS Nano*, **2017**, 11, 10591-10598	16.7	102
231	Accelerating drug discovery via organs-on-chips. *Lab on A Chip*, **2013**, 13, 4697-710	7.2	101
230	Systematic investigation of localized surface plasmon resonance of long-range ordered Au nanodisk arrays. *Journal of Applied Physics*, **2008**, 103, 014308	2.5	101
229	Mechanical Shuttling of Linear Motor-Molecules in Condensed Phases on Solid Substrates. *Nano Letters*, **2004**, 4, 2065-2071	11.5	101

228	Theory and experiment on particle trapping and manipulation via optothermally generated bubbles. *Lab on A Chip*, **2014**, 14, 384-91	7.2	99
227	Wave number-spiral acoustic tweezers for dynamic and reconfigurable manipulation of particles and cells. *Science Advances*, **2019**, 5, eaau6062	14.3	98
226	Digital acoustofluidics enables contactless and programmable liquid handling. *Nature Communications*, **2018**, 9, 2928	17.4	96
225	Molecular plasmonics for biology and nanomedicine. *Nanomedicine*, **2012**, 7, 751-70	5.6	96
224	Incident-angle-modulated molecular plasmonic switches: a case of weak exciton-plasmon coupling. *Nano Letters*, **2011**, 11, 2061-5	11.5	96
223	Microfluidic Hydrodynamic Focusing for Synthesis of Nanomaterials. *Nano Today*, **2016**, 11, 778-792	17.9	95
222	Investigation of acoustic streaming patterns around oscillating sharp edges. *Lab on A Chip*, **2014**, 14, 2824-36	7.2	93
221	Steering acoustically propelled nanowire motors toward cells in a biologically compatible environment using magnetic fields. *Langmuir*, **2013**, 29, 16113-8	4	92
220	In situ fabrication of 3D Ag@ZnO nanostructures for microfluidic surface-enhanced Raman scattering systems. *ACS Nano*, **2014**, 8, 12175-84	16.7	90
219	Standing surface acoustic wave (SSAW)-based microfluidic cytometer. *Lab on A Chip*, **2014**, 14, 916-23	7.2	89
218	An acoustofluidic micromixer via bubble inception and cavitation from microchannel sidewalls. *Analytical Chemistry*, **2014**, 86, 5083-8	7.8	89
217	An integrated, multiparametric flow cytometry chip using "microfluidic drifting" based three-dimensional hydrodynamic focusing. *Biomicrofluidics*, **2012**, 6, 24113-241139	3.2	88
216	Acoustic actuation of bioinspired microswimmers. *Lab on A Chip*, **2017**, 17, 395-400	7.2	85
215	Surface-Enhanced Raman Scattering Study on Graphene-Coated Metallic Nanostructure Substrates. *Journal of Physical Chemistry C*, **2012**, 116, 7249-7254	3.8	85
214	Annular aperture array based color filter. *Applied Physics Letters*, **2011**, 99, 033105	3.4	84
213	Aminopropyltriethoxysilane (APTES)-functionalized nanoporous polymeric gratings: fabrication and application in biosensing. *Journal of Materials Chemistry*, **2007**, 17, 4896		84
212	Programmable Acoustic Metasurfaces. *Advanced Functional Materials*, **2019**, 29, 1808489	15.6	83
211	Continuous enrichment of low-abundance cell samples using standing surface acoustic waves (SSAW). *Lab on A Chip*, **2014**, 14, 924-30	7.2	79

210	Surface acoustic wave driven light shutters using polymer-dispersed liquid crystals. *Advanced Materials*, **2011**, 23, 1656-9	24	78
209	Acoustic Separation of Nanoparticles in Continuous Flow. *Advanced Functional Materials*, **2017**, 27, 1606039	13.8	75
208	Tunable, pulsatile chemical gradient generation via acoustically driven oscillating bubbles. *Lab on A Chip*, **2013**, 13, 328-31	7.2	74
207	Dynamic tuning of plasmon-exciton coupling in arrays of nanodisk-J-aggregate complexes. *Advanced Materials*, **2010**, 22, 3603-7	24	74
206	Tunable phononic crystals with anisotropic inclusions. *Physical Review B*, **2011**, 83,	3.3	73
205	Effects of Geometry and Composition on Charge-Induced Plasmonic Shifts in Gold Nanoparticles. *Journal of Physical Chemistry C*, **2008**, 112, 7309-7317	3.8	72
204	Circulating Tumor Cell Phenotyping via High-Throughput Acoustic Separation. *Small*, **2018**, 14, e1801131	11	71
203	Changing stations in single bistable rotaxane molecules under electrochemical control. *ACS Nano*, **2010**, 4, 3697-701	16.7	70
202	Milliseconds microfluidic chaotic bubble mixer. *Microfluidics and Nanofluidics*, **2010**, 8, 139-144	2.8	69
201	High-throughput acoustic separation of platelets from whole blood. *Lab on A Chip*, **2016**, 16, 3466-72	7.2	68
200	A frequency-addressed plasmonic switch based on dual-frequency liquid crystals. *Applied Physics Letters*, **2010**, 97, 091101	3.4	67
199	Molecular, Supramolecular, and Macromolecular Motors and Artificial Muscles. *MRS Bulletin*, **2009**, 34, 671-681	3.2	67
198	Standing surface acoustic wave (SSAW)-based cell washing. *Lab on A Chip*, **2015**, 15, 331-8	7.2	66
197	Optically switchable gratings based on azo-dye-doped, polymer-dispersed liquid crystals. *Optics Letters*, **2009**, 34, 2351-3	3	66
196	Multifunctional porous silicon nanopillar arrays: antireflection, superhydrophobicity, photoluminescence, and surface-enhanced Raman scattering. *Nanotechnology*, **2013**, 24, 245704	3.4	65
195	Large-Scale Fabrication of Three-Dimensional Surface Patterns Using Template-Defined Electrochemical Deposition. *Advanced Functional Materials*, **2013**, 23, 720-730	15.6	65
194	Optofluidic imaging: now and beyond. *Lab on A Chip*, **2013**, 13, 17-24	7.2	64
193	Light-driven tunable dual-band plasmonic absorber using liquid-crystal-coated asymmetric nanodisk array. *Applied Physics Letters*, **2012**, 100, 053119	3.4	62

192	A single-layer, planar, optofluidic Mach-Zehnder interferometer for label-free detection. *Lab on A Chip*, **2011**, 11, 1795-800	7.2	62
191	Wide-band acoustic collimating by phononic crystal composites. *Applied Physics Letters*, **2008**, 92, 111901	3.4	62
190	Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter. *Small*, **2018**, 14, e1801996	11	62
189	Acoustofluidic Fluorescence Activated Cell Sorter. *Analytical Chemistry*, **2015**, 87, 12051-8	7.8	61
188	Acoustic Propulsion of Nanorod Motors Inside Living Cells. *Angewandte Chemie*, **2014**, 126, 3265-3268	3.6	60
187	On-Chip Production of Size-Controllable Liquid Metal Microdroplets Using Acoustic Waves. *Small*, **2016**, 12, 3861-9	11	60
186	Acoustic Microfluidics. *Annual Review of Analytical Chemistry*, **2020**, 13, 17-43	12.5	59
185	Standing surface acoustic wave based cell coculture. *Analytical Chemistry*, **2014**, 86, 9853-9	7.8	59
184	Fabrication and characterization of beaded SiC quantum rings with anomalous red spectral shift. *Advanced Materials*, **2012**, 24, 5598-603	24	59
183	Investigation of micromixing by acoustically oscillated sharp-edges. *Biomicrofluidics*, **2016**, 10, 024124	3.2	59
182	Dispersion tuning and route reconfiguration of acoustic waves in valley topological phononic crystals. *Nature Communications*, **2020**, 11, 762	17.4	58
181	Humidity sensing based on nanoporous polymeric photonic crystals. *Sensors and Actuators B: Chemical*, **2008**, 129, 391-396	8.5	58
180	Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers. *Advanced Materials*, **2016**, 28, 8632-8638	24	57
179	An electrochemical detection scheme for identification of single nucleotide polymorphisms using hairpin-forming probes. *Nucleic Acids Research*, **2002**, 30, e55	20.1	57
178	Acoustofluidic Rotational Manipulation of Cells and Organisms Using Oscillating Solid Structures. *Small*, **2016**, 12, 5120-5125	11	56
177	Probing cell-cell communication with microfluidic devices. *Lab on A Chip*, **2013**, 13, 3152-62	7.2	55
176	Purinosome formation as a function of the cell cycle. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 1368-73	11.5	55
175	Experimental and numerical studies on standing surface acoustic wave microfluidics. *Lab on A Chip*, **2016**, 16, 515-24	7.2	54

174	Chemically Tuning the Localized Surface Plasmon Resonances of Gold Nanostructure Arrays. *Journal of Physical Chemistry C*, **2009**, 113, 7019-7024	3.8	54
173	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. *Advanced Materials Technologies*, **2019**, 4, 1800420	6.8	53
172	Acoustofluidic bacteria separation. *Journal of Micromechanics and Microengineering*, **2017**, 27,	2	52
171	Applications of Acoustofluidics in Bioanalytical Chemistry. *Analytical Chemistry*, **2019**, 91, 757-767	7.8	52
170	A nanowell-based QCM aptasensor for rapid and sensitive detection of avian influenza virus. *Sensors and Actuators B: Chemical*, **2017**, 240, 934-940	8.5	51
169	Plasmofluidics: Merging Light and Fluids at the Micro-/Nanoscale. *Small*, **2015**, 11, 4423-44	11	51
168	Exploiting mechanical biomarkers in microfluidics. *Lab on A Chip*, **2012**, 12, 4006-9	7.2	51
167	Beam bending via plasmonic lenses. *Optics Express*, **2010**, 18, 23458-65	3.3	51
166	Acoustofluidic Salivary Exosome Isolation: A Liquid Biopsy Compatible Approach for Human Papillomavirus-Associated Oropharyngeal Cancer Detection. *Journal of Molecular Diagnostics*, **2020**, 22, 50-59	5.1	50
165	Separating extracellular vesicles and lipoproteins via acoustofluidics. *Lab on A Chip*, **2019**, 19, 1174-1182	7.2	49
164	All-Optical Modulation of Localized Surface Plasmon Coupling in a Hybrid System Composed of Photo-Switchable Gratings and Au Nanodisk Arrays. *Journal of Physical Chemistry C*, **2011**, 115, 7717-7722	3.8	48
163	Coupling between Molecular and Plasmonic Resonances: Effect of Molecular Absorbance. *Journal of Physical Chemistry C*, **2009**, 113, 18499-18503	3.8	48
162	A droplet-based, optofluidic device for high-throughput, quantitative bioanalysis. *Analytical Chemistry*, **2012**, 84, 10745-9	7.8	47
161	Thermal behavior of localized surface plasmon resonance of Au□iO2 core/shell nanoparticle arrays. *Applied Physics Letters*, **2007**, 90, 183117	3.4	47
160	Rapid detection of avian influenza virus H5N1 in chicken tracheal samples using an impedance aptasensor with gold nanoparticles for signal amplification. *Journal of Virological Methods*, **2016**, 236, 147-156	2.6	46
159	Sub-micrometer-precision, three-dimensional (3D) hydrodynamic focusing via "microfluidic drifting". *Lab on A Chip*, **2014**, 14, 415-23	7.2	45
158	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
157	Effects of Intrinsic Fano Interference on Surface Enhanced Raman Spectroscopy: Comparison between Platinum and Gold. *Journal of Physical Chemistry C*, **2010**, 114, 18059-18066	3.8	43

156	An in-plane, variable optical attenuator using a fluid-based tunable reflective interface. *Applied Physics Letters*, **2009**, 95, 083507	3.4	43
155	Tunable optofluidic microlens through active pressure control of an air–liquid interface. *Microfluidics and Nanofluidics*, **2010**, 9, 313-318	2.8	43
154	An acoustofluidic sputum liquefier. *Lab on A Chip*, **2015**, 15, 3125-31	7.2	42
153	Reusable acoustic tweezers for disposable devices. *Lab on A Chip*, **2015**, 15, 4517-23	7.2	42
152	Three-dimensional hydrodynamic focusing method for polyplex synthesis. *ACS Nano*, **2014**, 8, 332-9	16.7	42
151	Acoustofluidic chemical waveform generator and switch. *Analytical Chemistry*, **2014**, 86, 11803-10	7.8	42
150	Single-shot characterization of enzymatic reaction constants Km and kcat by an acoustic-driven, bubble-based fast micromixer. *Analytical Chemistry*, **2012**, 84, 7495-501	7.8	42
149	Light-driven artificial molecular machines. *Journal of Nanophotonics*, **2010**, 4, 042501	1.1	42
148	Acoustic mirage in two-dimensional gradient-index phononic crystals. *Journal of Applied Physics*, **2009**, 106, 053529	2.5	42
147	Probing Cell Deformability via Acoustically Actuated Bubbles. *Small*, **2016**, 12, 902-10	11	42
146	Single-Cell Virology: On-Chip Investigation of Viral Infection Dynamics. *Cell Reports*, **2017**, 21, 1692-1704	10.6	41
145	Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. *Small*, **2015**, 11, 2733-7	11	41
144	Shape-controlled synthesis of hybrid nanomaterials via three-dimensional hydrodynamic focusing. *ACS Nano*, **2014**, 8, 10026-34	16.7	40
143	Electrochemically Created Highly Surface Roughened Ag Nanoplate Arrays for SERS Biosensing Applications. *Journal of Materials Chemistry C*, **2014**, 2, 8350-8356	7.1	40
142	Surface acoustic waves enable rotational manipulation of Caenorhabditis elegans. *Lab on A Chip*, **2019**, 19, 984-992	7.2	39
141	A spatiotemporally controllable chemical gradient generator via acoustically oscillating sharp-edge structures. *Lab on A Chip*, **2015**, 15, 4166-76	7.2	39
140	Mixing high-viscosity fluids via acoustically driven bubbles. *Journal of Micromechanics and Microengineering*, **2017**, 27, 015008	2	39
139	A disposable acoustofluidic chip for nano/microparticle separation using unidirectional acoustic transducers. *Lab on A Chip*, **2020**, 20, 1298-1308	7.2	38

138	Lasing from colloidal InP/ZnS quantum dots. *Optics Express*, **2011**, 19, 5528-35	3.3	38
137	Tuning surface-enhanced Raman scattering from graphene substrates using the electric field effect and chemical doping. *Applied Physics Letters*, **2013**, 102, 11102	3.4	37
136	Acoustofluidic actuation of in situ fabricated microrotors. *Lab on A Chip*, **2016**, 16, 3532-7	7.2	37
135	Acoustofluidic centrifuge for nanoparticle enrichment and separation. *Science Advances*, **2021**, 7,	14.3	36
134	Acoustofluidic sonoporation for gene delivery to human hematopoietic stem and progenitor cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 10976-10982	11.5	35
133	Self-powered glucose-responsive micropumps. *ACS Nano*, **2014**, 8, 8537-42	16.7	34
132	Lab-on-a-chip technologies for single-molecule studies. *Lab on A Chip*, **2013**, 13, 2183-98	7.2	34
131	Towards nanoporous polymer thin film-based drug delivery systems. *Thin Solid Films*, **2009**, 517, 1794-1798	2.1	34
130	Propagation of designer surface plasmons in structured conductor surfaces with parabolic gradient index. *Optics Express*, **2009**, 17, 2997-3006	3.3	34
129	Colour compound lenses for a portable fluorescence microscope. *Light: Science and Applications*, **2019**, 8, 75	16.7	33
128	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
127	High-speed optical humidity sensors based on chiral sculptured thin films. *Sensors and Actuators B: Chemical*, **2011**, 156, 593-598	8.5	33
126	Acoustofluidic Synthesis of Particulate Nanomaterials. *Advanced Science*, **2019**, 6, 1900913	13.6	32
125	A sharp-edge-based acoustofluidic chemical signal generator. *Lab on A Chip*, **2018**, 18, 1411-1421	7.2	32
124	High-throughput cell focusing and separation via acoustofluidic tweezers. *Lab on A Chip*, **2018**, 18, 3003-3010	7.2	32
123	Design of acoustic beam aperture modifier using gradient-index phononic crystals. *Journal of Applied Physics*, **2012**, 111, 123510	2.5	31
122	Tunable two-dimensional liquid gradient refractive index (L-GRIN) lens for variable light focusing. *Lab on A Chip*, **2010**, 10, 2387-93	7.2	30
121	A single-layer, planar, optofluidic switch powered by acoustically driven, oscillating microbubbles. *Applied Physics Letters*, **2012**, 101, 141101	3.4	30

120	Electrically switchable phase-type fractal zone plates and fractal photon sieves. *Optics Express*, **2009**, 17, 12418-23	3.3	30
119	Acoustically Driven Fluid and Particle Motion in Confined and Leaky Systems. *Physical Review Applied*, **2018**, 9,	4.3	29
118	Acoustic beamwidth compressor using gradient-index phononic crystals. *Journal Physics D: Applied Physics*, **2009**, 42, 185502	3	29
117	Generating multifunctional acoustic tweezers in Petri dishes for contactless, precise manipulation of bioparticles. *Science Advances*, **2020**, 6,	14.3	29
116	Acoustofluidics-Assisted Fluorescence-SERS Bimodal Biosensors. *Small*, **2020**, 16, e2005179	11	28
115	Acoustofluidic devices controlled by cell phones. *Lab on A Chip*, **2018**, 18, 433-441	7.2	28
114	Cell lysis via acoustically oscillating sharp edges. *Lab on A Chip*, **2019**, 19, 4021-4032	7.2	28
113	Acoustofluidic methods in cell analysis. *TrAC - Trends in Analytical Chemistry*, **2019**, 117, 280-290	14.6	27
112	On-chip stool liquefaction via acoustofluidics. *Lab on A Chip*, **2019**, 19, 941-947	7.2	26
111	An acoustofluidic device for efficient mixing over a wide range of flow rates. *Lab on A Chip*, **2020**, 20, 1238-1248	7.2	26
110	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
109	Acoustofluidic Holography for Micro- to Nanoscale Particle Manipulation. *ACS Nano*, **2020**, 14, 14635-14645	16.7	25
108	Optofluidic tunable microlens by manipulating the liquid meniscus using a flared microfluidic structure. *Biomicrofluidics*, **2010**, 4, 43007	3.2	25
107	Scalable manufacturing of plasmonic nanodisk dimers and cusp nanostructures using salting-out quenching method and colloidal lithography. *ACS Nano*, **2011**, 5, 5838-47	16.7	25
106	Exploring bubble oscillation and mass transfer enhancement in acoustic-assisted liquid-liquid extraction with a microfluidic device. *Scientific Reports*, **2015**, 5, 12572	4.9	24
105	Theory and experiment on resonant frequencies of liquid-air interfaces trapped in microfluidic devices. *Journal of Applied Physics*, **2013**, 114, 194503	2.5	24
104	Frequency-addressed tunable transmission in optically thin metallic nanohole arrays with dual-frequency liquid crystals. *Journal of Applied Physics*, **2011**, 109, 084340	2.5	24
103	Acoustic streaming vortices enable contactless, digital control of droplets. *Science Advances*, **2020**, 6, eaba0606	14.3	22

102	Dark-field illumination on zero-mode waveguide/microfluidic hybrid chip reveals T4 replisomal protein interactions. *Nano Letters*, **2014**, 14, 1952-60	11.5	22
101	Acoustofluidic relay: sequential trapping and transporting of microparticles via acoustically excited oscillating bubbles. *Journal of the Association for Laboratory Automation*, **2014**, 19, 137-43		22
100	Characterization of complementary patterned metallic membranes produced simultaneously by a dual fabrication process. *Applied Physics Letters*, **2010**, 97, 193101	3.4	22
99	Biological and biomimetic molecular machines. *Nanomedicine*, **2008**, 3, 107-24	5.6	22
98	Acoustofluidic Transfer of Inflammatory Cells from Human Sputum Samples. *Analytical Chemistry*, **2016**, 88, 5655-61	7.8	22
97	Plastic-based acoustofluidic devices for high-throughput, biocompatible platelet separation. *Lab on A Chip*, **2019**, 19, 394-402	7.2	21
96	A Cell-Phone-Based Acoustofluidic Platform for Quantitative Point-of-Care Testing. *ACS Nano*, **2020** , 14, 3159-3169	16.7	21
95	Acoustofluidics-Assisted Engineering of Multifunctional Three-Dimensional Zinc Oxide Nanoarrays. *ACS Nano*, **2020**, 14, 6150-6163	16.7	21
94	Acoustic tweezers based on circular, slanted-finger interdigital transducers for dynamic manipulation of micro-objects. *Lab on A Chip*, **2020**, 20, 987-994	7.2	21
93	Acoustic Actuation of Fabricated Artificial Cilia. *Journal of Micromechanics and Microengineering*, **2018**, 28,	2	21
92	High contrast modulation of plasmonic signals using nanoscale dual-frequency liquid crystals. *Optics Express*, **2011**, 19, 15265-74	3.3	20
91	Acoustofluidic rotational tweezing enables high-speed contactless morphological phenotyping of zebrafish larvae. *Nature Communications*, **2021**, 12, 1118	17.4	20
90	Contactless, programmable acoustofluidic manipulation of objects on water. *Lab on A Chip*, **2019**, 19, 3397-3404	7.2	19
89	Open source acoustofluidics. *Lab on A Chip*, **2019**, 19, 2404-2414	7.2	19
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