

# Tony Jun Huang

## List of Publications by Year in descending order

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306  
papers

25,269  
citations

5261

83  
h-index

8618

146  
g-index

325  
all docs

325  
docs citations

325  
times ranked

19199  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 11105-11109.	3.3	765
2	Surface acoustic wave microfluidics. Lab on A Chip, 2013, 13, 3626.	3.1	708
3	Linear Artificial Molecular Muscles. Journal of the American Chemical Society, 2005, 127, 9745-9759.	6.6	660
4	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.	3.3	633
5	Acoustic separation of circulating tumor cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4970-4975.	3.3	632
6	Acoustic tweezers: patterning cells and microparticles using standing surface acoustic waves (SSAW). Lab on A Chip, 2009, 9, 2890.	3.1	612
7	Acoustic tweezers for the life sciences. Nature Methods, 2018, 15, 1021-1028.	9.0	513
8	Continuous particle separation in a microfluidic channel via standing surface acoustic waves (SSAW). Lab on A Chip, 2009, 9, 3354.	3.1	449
9	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, 1522-1527.	3.3	448
10	Revisiting lab-on-a-chip technology for drug discovery. Nature Reviews Drug Discovery, 2012, 11, 620-632.	21.5	422
11	Focusing microparticles in a microfluidic channel with standing surface acoustic waves (SSAW). Lab on A Chip, 2008, 8, 221-223.	3.1	395
12	Cell separation using tilted-angle standing surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12992-12997.	3.3	390
13	Rotational manipulation of single cells and organisms using acoustic waves. Nature Communications, 2016, 7, 11085.	5.8	366
14	A millisecond micromixer via single-bubble-based acoustic streaming. Lab on A Chip, 2009, 9, 2738.	3.1	330
15	Controlling cell-cell interactions using surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 43-48.	3.3	330
16	Acoustic Propulsion of Nanorod Motors Inside Living Cells. Angewandte Chemie - International Edition, 2014, 53, 3201-3204.	7.2	281
17	Gradient-index phononic crystals. Physical Review B, 2009, 79, .	1.1	274
18	Rare cell isolation and analysis in microfluidics. Lab on A Chip, 2014, 14, 626.	3.1	273

#	ARTICLE	IF	CITATIONS
19	Polarization-independent dual-band infrared perfect absorber based on a metal-dielectric-metal elliptical nanodisk array. <i>Optics Express</i> , 2011, 19, 15221.	1.7	268
20	Acoustofluidic separation of cells and particles. <i>Microsystems and Nanoengineering</i> , 2019, 5, 32.	3.4	268
21	A Mechanical Actuator Driven Electrochemically by Artificial Molecular Muscles. <i>ACS Nano</i> , 2009, 3, 291-300.	7.3	241
22	A fast microfluidic mixer based on acoustically driven sidewall-trapped microbubbles. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 727-731.	1.0	232
23	An acoustofluidic micromixer based on oscillating sidewall sharp-edges. <i>Lab on A Chip</i> , 2013, 13, 3847.	3.1	220
24	Active Molecular Plasmonics: Controlling Plasmon Resonances with Molecular Switches. <i>Nano Letters</i> , 2009, 9, 819-825.	4.5	213
25	A nanomechanical device based on linear molecular motors. <i>Applied Physics Letters</i> , 2004, 85, 5391-5393.	1.5	210
26	Microfluidic diagnostics for the developing world. <i>Lab on A Chip</i> , 2012, 12, 1412.	3.1	201
27	Surface acoustic wave (SAW) acoustophoresis: now and beyond. <i>Lab on A Chip</i> , 2012, 12, 2766.	3.1	193
28	Standing surface acoustic wave (SSAW) based multichannel cell sorting. <i>Lab on A Chip</i> , 2012, 12, 4228.	3.1	186
29	Single-layer planar on-chip flow cytometer using microfluidic drifting based three-dimensional (3D) hydrodynamic focusing. <i>Lab on A Chip</i> , 2009, 9, 1583.	3.1	185
30	Microfluidic synthesis of multifunctional Janus particles for biomedical applications. <i>Lab on A Chip</i> , 2012, 12, 2097.	3.1	185
31	Spatial colocalization and functional link of purinosomes with mitochondria. <i>Science</i> , 2016, 351, 733-737.	6.0	174
32	Three-dimensional continuous particle focusing in a microfluidic channel via standing surface acoustic waves (SSAW). <i>Lab on A Chip</i> , 2011, 11, 2319.	3.1	173
33	Acoustic Microfluidics. <i>Annual Review of Analytical Chemistry</i> , 2020, 13, 17-43.	2.8	173
34	“Microfluidic drifting” implementing three-dimensional hydrodynamic focusing with a single-layer planar microfluidic device. <i>Lab on A Chip</i> , 2007, 7, 1260.	3.1	169
35	Reflective plasmonic color filters based on lithographically patterned silver nanorod arrays. <i>Nanoscale</i> , 2013, 5, 6243.	2.8	168
36	Selectively manipulable acoustic-powered microswimmers. <i>Scientific Reports</i> , 2015, 5, 9744.	1.6	168

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37	Hydrodynamically tunable optofluidic cylindrical microlens. Lab on A Chip, 2007, 7, 1303.	3.1	162
38	Probing circulating tumor cells in microfluidics. Lab on A Chip, 2013, 13, 602.	3.1	156
39	Numerical study of acoustophoretic motion of particles in a PDMS microchannel driven by surface acoustic waves. Lab on A Chip, 2015, 15, 2700-2709.	3.1	154
40	A reliable and programmable acoustofluidic pump powered by oscillating sharp-edge structures. Lab on A Chip, 2014, 14, 4319-4323.	3.1	152
41	Light-Driven Plasmonic Switches Based on Au Nanodisk Arrays and Photoresponsive Liquid Crystals. Advanced Materials, 2008, 20, 3528-3532.	11.1	150
42	An On-Chip, Multichannel Droplet Sorter Using Standing Surface Acoustic Waves. Analytical Chemistry, 2013, 85, 5468-5474.	3.2	149
43	Microfluidic hydrodynamic focusing for synthesis of nanomaterials. Nano Today, 2016, 11, 778-792.	6.2	148
44	Rapid formation of size-controllable multicellular spheroids via 3D acoustic tweezers. Lab on A Chip, 2016, 16, 2636-2643.	3.1	147
45	Wave number- <sup>2</sup> spiral acoustic tweezers for dynamic and reconfigurable manipulation of particles and cells. Science Advances, 2019, 5, eaau6062.	4.7	146
46	Focusing of the lowest antisymmetric Lamb wave in a gradient-index phononic crystal plate. Applied Physics Letters, 2011, 98, .	1.5	142
47	Tunable Nanowire Patterning Using Standing Surface Acoustic Waves. ACS Nano, 2013, 7, 3306-3314.	7.3	142
48	Enriching Nanoparticles <i>via</i> Acoustofluidics. ACS Nano, 2017, 11, 603-612.	7.3	142
49	Theory and experiment on particle trapping and manipulation via optothermally generated bubbles. Lab on A Chip, 2014, 14, 384-391.	3.1	136
50	Rheotaxis of Bimetallic Micromotors Driven by Chemical-Acoustic Hybrid Power. ACS Nano, 2017, 11, 10591-10598.	7.3	135
51	Dispersion tuning and route reconfiguration of acoustic waves in valley topological phononic crystals. Nature Communications, 2020, 11, 762.	5.8	135
52	Digital acoustofluidics enables contactless and programmable liquid handling. Nature Communications, 2018, 9, 2928.	5.8	134
53	Programmable Acoustic Metasurfaces. Advanced Functional Materials, 2019, 29, 1808489.	7.8	130
54	A reconfigurable plasmofluidic lens. Nature Communications, 2013, 4, 2305.	5.8	127

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55	Investigation of acoustic streaming patterns around oscillating sharp edges. <i>Lab on A Chip</i> , 2014, 14, 2824-2836.	3.1	126
56	A high-throughput acoustic cell sorter. <i>Lab on A Chip</i> , 2015, 15, 3870-3879.	3.1	126
57	Acoustic actuation of bioinspired microswimmers. <i>Lab on A Chip</i> , 2017, 17, 395-400.	3.1	124
58	Systematic investigation of localized surface plasmon resonance of long-range ordered Au nanodisk arrays. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	122
59	Tunable patterning of microparticles and cells using standing surface acoustic waves. <i>Lab on A Chip</i> , 2012, 12, 2491.	3.1	122
60	An Acoustofluidic Micromixer via Bubble Inception and Cavitation from Microchannel Sidewalls. <i>Analytical Chemistry</i> , 2014, 86, 5083-5088.	3.2	122
61	Tunable Liquid Gradient Refractive Index (L-GRIN) lens with two degrees of freedom. <i>Lab on A Chip</i> , 2009, 9, 2050.	3.1	118
62	Accelerating drug discovery via organs-on-chips. <i>Lab on A Chip</i> , 2013, 13, 4697.	3.1	117
63	Circulating Tumor Cell Phenotyping via High-Throughput Acoustic Separation. <i>Small</i> , 2018, 14, e1801131.	5.2	115
64	Molecular plasmonics for biology and nanomedicine. <i>Nanomedicine</i> , 2012, 7, 751-770.	1.7	114
65	Mechanical Shuttling of Linear Motor-Molecules in Condensed Phases on Solid Substrates. <i>Nano Letters</i> , 2004, 4, 2065-2071.	4.5	111
66	Incident-Angle-Modulated Molecular Plasmonic Switches: A Case of Weak Exciton-Plasmon Coupling. <i>Nano Letters</i> , 2011, 11, 2061-2065.	4.5	107
67	Steering Acoustically Propelled Nanowire Motors toward Cells in a Biologically Compatible Environment Using Magnetic Fields. <i>Langmuir</i> , 2013, 29, 16113-16118.	1.6	107
68	Standing surface acoustic wave (SSAW)-based microfluidic cytometer. <i>Lab on A Chip</i> , 2014, 14, 916-923.	3.1	106
69	<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.	7.3	106
70	High-throughput acoustic separation of platelets from whole blood. <i>Lab on A Chip</i> , 2016, 16, 3466-3472.	3.1	106
71	Acoustic Separation of Nanoparticles in Continuous Flow. <i>Advanced Functional Materials</i> , 2017, 27, 1606039.	7.8	106
72	Acoustofluidic Salivary Exosome Isolation. <i>Journal of Molecular Diagnostics</i> , 2020, 22, 50-59.	1.2	104

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73	An integrated, multiparametric flow cytometry chip using "microfluidic drifting"-based three-dimensional hydrodynamic focusing. <i>Biomicrofluidics</i> , 2012, 6, 24113-241139.	1.2	102
74	Acoustofluidic centrifuge for nanoparticle enrichment and separation. <i>Science Advances</i> , 2021, 7, .	4.7	100
75	Annular aperture array based color filter. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	99
76	Surface Acoustic Wave Driven Light Shutters Using Polymer-Dispersed Liquid Crystals. <i>Advanced Materials</i> , 2011, 23, 1656-1659.	11.1	97
77	Surface-Enhanced Raman Scattering Study on Graphene-Coated Metallic Nanostructure Substrates. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7249-7254.	1.5	97
78	Investigation of micromixing by acoustically oscillated sharp-edges. <i>Biomicrofluidics</i> , 2016, 10, 024124.	1.2	96
79	Aminopropyltriethoxysilane (APTES)-functionalized nanoporous polymeric gratings: fabrication and application in biosensing. <i>Journal of Materials Chemistry</i> , 2007, 17, 4896.	6.7	95
80	Acoustofluidic Rotational Manipulation of Cells and Organisms Using Oscillating Solid Structures. <i>Small</i> , 2016, 12, 5120-5125.	5.2	95
81	Acoustofluidics for biomedical applications. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	11.8	95
82	Tunable, pulsatile chemical gradient generation via acoustically driven oscillating bubbles. <i>Lab on A Chip</i> , 2013, 13, 328-331.	3.1	91
83	Continuous enrichment of low-abundance cell samples using standing surface acoustic waves (SSAW). <i>Lab on A Chip</i> , 2014, 14, 924-930.	3.1	88
84	Tunable phononic crystals with anisotropic inclusions. <i>Physical Review B</i> , 2011, 83, .	1.1	86
85	Standing surface acoustic wave (SSAW)-based cell washing. <i>Lab on A Chip</i> , 2015, 15, 331-338.	3.1	85
86	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, 1368-1373.	3.3	84
87	On-Chip Production of Size-Controllable Liquid Metal Microdroplets Using Acoustic Waves. <i>Small</i> , 2016, 12, 3861-3869.	5.2	84
88	Applications of Acoustofluidics in Bioanalytical Chemistry. <i>Analytical Chemistry</i> , 2019, 91, 757-767.	3.2	84
89	Standing Surface Acoustic Wave (SSAW)-Based Fluorescence-Activated Cell Sorter. <i>Small</i> , 2018, 14, e1801996.	5.2	83
90	Separating extracellular vesicles and lipoproteins via acoustofluidics. <i>Lab on A Chip</i> , 2019, 19, 1174-1182.	3.1	81

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91	Optically switchable gratings based on azo-dye-doped, polymer-dispersed liquid crystals. Optics Letters, 2009, 34, 2351.	1.7	80
92	Dynamic Tuning of Plasmon-Exciton Coupling in Arrays of Nanodisk Aggregate Complexes. Advanced Materials, 2010, 22, 3603-3607.	11.1	80
93	Effects of Geometry and Composition on Charge-Induced Plasmonic Shifts in Gold Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 7309-7317.	1.5	79
94	Changing Stations in Single Bistable Rotaxane Molecules under Electrochemical Control. ACS Nano, 2010, 4, 3697-3701.	7.3	78
95	A frequency-addressed plasmonic switch based on dual-frequency liquid crystals. Applied Physics Letters, 2010, 97, .	1.5	78
96	Standing Surface Acoustic Wave Based Cell Coculture. Analytical Chemistry, 2014, 86, 9853-9859.	3.2	78
97	Surface Acoustic Waves Grant Superior Spatial Control of Cells Embedded in Hydrogel Fibers. Advanced Materials, 2016, 28, 8632-8638.	11.1	78
98	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. Advanced Materials Technologies, 2019, 4, 1800420.	3.0	78
99	Acoustofluidic bacteria separation. Journal of Micromechanics and Microengineering, 2017, 27, 015031.	1.5	77
100	Acoustofluidic Fluorescence Activated Cell Sorter. Analytical Chemistry, 2015, 87, 12051-12058.	3.2	76
101	A disposable acoustofluidic chip for nano/microparticle separation using unidirectional acoustic transducers. Lab on A Chip, 2020, 20, 1298-1308.	3.1	76
102	Wide-band acoustic collimating by phononic crystal composites. Applied Physics Letters, 2008, 92, .	1.5	74
103	Molecular, Supramolecular, and Macromolecular Motors and Artificial Muscles. MRS Bulletin, 2009, 34, 671-681.	1.7	74
104	Milliseconds microfluidic chaotic bubble mixer. Microfluidics and Nanofluidics, 2010, 8, 139-144.	1.0	74
105	A single-layer, planar, optofluidic Mach-Zehnder interferometer for label-free detection. Lab on A Chip, 2011, 11, 1795.	3.1	74
106	Multifunctional porous silicon nanopillar arrays: antireflection, superhydrophobicity, photoluminescence, and surface-enhanced Raman scattering. Nanotechnology, 2013, 24, 245704.	1.3	74
107	Experimental and numerical studies on standing surface acoustic wave microfluidics. Lab on A Chip, 2016, 16, 515-524.	3.1	73
108	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.	3.3	72

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109	Single-Cell Virology: On-Chip Investigation of Viral Infection Dynamics. <i>Cell Reports</i> , 2017, 21, 1692-1704.	2.9	71
110	Optofluidic imaging: now and beyond. <i>Lab on A Chip</i> , 2013, 13, 17-24.	3.1	70
111	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.	4.0	70
112	Light-driven tunable dual-band plasmonic absorber using liquid-crystal-coated asymmetric nanodisk array. <i>Applied Physics Letters</i> , 2012, 100, 053119.	1.5	69
113	Surface acoustic waves enable rotational manipulation of <i>Caenorhabditis elegans</i> . <i>Lab on A Chip</i> , 2019, 19, 984-992.	3.1	69
114	Acoustofluidics-Assisted Fluorescence-SERS Bimodal Biosensors. <i>Small</i> , 2020, 16, e2005179.	5.2	68
115	Large-Scale Fabrication of Three-Dimensional Surface Patterns Using Template-Defined Electrochemical Deposition. <i>Advanced Functional Materials</i> , 2013, 23, 720-730.	7.8	67
116	Humidity sensing based on nanoporous polymeric photonic crystals. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 391-396.	4.0	66
117	Harmonic acoustics for dynamic and selective particle manipulation. <i>Nature Materials</i> , 2022, 21, 540-546.	13.3	66
118	Fabrication and Characterization of Beaded SiC Quantum Rings with Anomalous Red Spectral Shift. <i>Advanced Materials</i> , 2012, 24, 5598-5603.	11.1	65
119	Probing cell-cell communication with microfluidic devices. <i>Lab on A Chip</i> , 2013, 13, 3152.	3.1	65
120	An electrochemical detection scheme for identification of single nucleotide polymorphisms using hairpin-forming probes. <i>Nucleic Acids Research</i> , 2002, 30, 55e-55.	6.5	63
121	Chemically Tuning the Localized Surface Plasmon Resonances of Gold Nanostructure Arrays. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7019-7024.	1.5	63
122	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.	3.1	63
123	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.	1.0	63
124	Acoustofluidic Holography for Micro- to Nanoscale Particle Manipulation. <i>ACS Nano</i> , 2020, 14, 14635-14645.	7.3	62
125	Plasmofluidics: Merging Light and Fluids at the Micro-/Nanoscale. <i>Small</i> , 2015, 11, 4423-4444.	5.2	61
126	Colour compound lenses for a portable fluorescence microscope. <i>Light: Science and Applications</i> , 2019, 8, 75.	7.7	61

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127	Reusable acoustic tweezers for disposable devices. <i>Lab on A Chip</i> , 2015, 15, 4517-4523.	3.1	60
128	Probing Cell Deformability via Acoustically Actuated Bubbles. <i>Small</i> , 2016, 12, 902-910.	5.2	60
129	Mixing high-viscosity fluids via acoustically driven bubbles. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 015008.	1.5	60
130	Microfluidic Isolation and Enrichment of Nanoparticles. <i>ACS Nano</i> , 2020, 14, 16220-16240.	7.3	59
131	Generating multifunctional acoustic tweezers in Petri dishes for contactless, precise manipulation of bioparticles. <i>Science Advances</i> , 2020, 6, .	4.7	59
132	Beam bending via plasmonic lenses. <i>Optics Express</i> , 2010, 18, 23458.	1.7	58
133	Exploiting mechanical biomarkers in microfluidics. <i>Lab on A Chip</i> , 2012, 12, 4006.	3.1	57
134	An acoustofluidic device for efficient mixing over a wide range of flow rates. <i>Lab on A Chip</i> , 2020, 20, 1238-1248.	3.1	56
135	Acoustofluidics-Assisted Engineering of Multifunctional Three-Dimensional Zinc Oxide Nanoarrays. <i>ACS Nano</i> , 2020, 14, 6150-6163.	7.3	56
136	A Droplet-Based, Optofluidic Device for High-Throughput, Quantitative Bioanalysis. <i>Analytical Chemistry</i> , 2012, 84, 10745-10749.	3.2	55
137	High-throughput cell focusing and separation <i>via</i> acoustofluidic tweezers. <i>Lab on A Chip</i> , 2018, 18, 3003-3010.	3.1	55
138	Tunable optofluidic microlens through active pressure control of an air-liquid interface. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 313-318.	1.0	54
139	Thermal behavior of localized surface plasmon resonance of Au-TiO <sub>2</sub> core/shell nanoparticle arrays. <i>Applied Physics Letters</i> , 2007, 90, 183117.	1.5	52
140	All-Optical Modulation of Localized Surface Plasmon Coupling in a Hybrid System Composed of Photoswitchable Gratings and Au Nanodisk Arrays. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7717-7722.	1.5	52
141	Single-Shot Characterization of Enzymatic Reaction Constants $K_m$ and $k_{cat}$ by an Acoustic-Driven, Bubble-Based Fast Micromixer. <i>Analytical Chemistry</i> , 2012, 84, 7495-7501.	3.2	52
142	Sub-micrometer-precision, three-dimensional (3D) hydrodynamic focusing via microfluidic drifting. <i>Lab on A Chip</i> , 2014, 14, 415-423.	3.1	52
143	Coupling between Molecular and Plasmonic Resonances: Effect of Molecular Absorbance. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18499-18503.	1.5	51
144	An acoustofluidic sputum liquefier. <i>Lab on A Chip</i> , 2015, 15, 3125-3131.	3.1	51

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145	Acoustofluidic actuation of in situ fabricated microrotors. <i>Lab on A Chip</i> , 2016, 16, 3532-3537.	3.1	51
146	Biomimetic apposition compound eye fabricated using microfluidic-assisted 3D printing. <i>Nature Communications</i> , 2021, 12, 6458.	5.8	51
147	Precise Manipulation and Patterning of Protein Crystals for Macromolecular Crystallography Using Surface Acoustic Waves. <i>Small</i> , 2015, 11, 2733-2737.	5.2	49
148	A spatiotemporally controllable chemical gradient generator via acoustically oscillating sharp-edge structures. <i>Lab on A Chip</i> , 2015, 15, 4166-4176.	3.1	49
149	Acoustofluidic Synthesis of Particulate Nanomaterials. <i>Advanced Science</i> , 2019, 6, 1900913.	5.6	49
150	Acoustofluidic rotational tweezing enables high-speed contactless morphological phenotyping of zebrafish larvae. <i>Nature Communications</i> , 2021, 12, 1118.	5.8	49
151	Lasing from colloidal InP/ZnS quantum dots. <i>Optics Express</i> , 2011, 19, 5528.	1.7	48
152	Tuning surface-enhanced Raman scattering from graphene substrates using the electric field effect and chemical doping. <i>Applied Physics Letters</i> , 2013, 102, 11102.	1.5	48
153	Acoustofluidic Chemical Waveform Generator and Switch. <i>Analytical Chemistry</i> , 2014, 86, 11803-11810.	3.2	48
154	Three-Dimensional Hydrodynamic Focusing Method for Polyplex Synthesis. <i>ACS Nano</i> , 2014, 8, 332-339.	7.3	48
155	A sharp-edge-based acoustofluidic chemical signal generator. <i>Lab on A Chip</i> , 2018, 18, 1411-1421.	3.1	48
156	Acoustic mirage in two-dimensional gradient-index phononic crystals. <i>Journal of Applied Physics</i> , 2009, 106, 053529.	1.1	47
157	Cell lysis via acoustically oscillating sharp edges. <i>Lab on A Chip</i> , 2019, 19, 4021-4032.	3.1	47
158	Light-driven artificial molecular machines. <i>Journal of Nanophotonics</i> , 2010, 4, 042501.	0.4	46
159	Effects of Intrinsic Fano Interference on Surface Enhanced Raman Spectroscopy: Comparison between Platinum and Gold. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18059-18066.	1.5	46
160	Shape-Controlled Synthesis of Hybrid Nanomaterials via Three-Dimensional Hydrodynamic Focusing. <i>ACS Nano</i> , 2014, 8, 10026-10034.	7.3	46
161	An in-plane, variable optical attenuator using a fluid-based tunable reflective interface. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	45
162	High-speed optical humidity sensors based on chiral sculptured thin films. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 593-598.	4.0	45

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163	Acoustofluidic methods in cell analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 117, 280-290.	5.8	45
164	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.	5.7	45
165	Electrochemically created highly surface roughened Ag nanoplate arrays for SERS biosensing applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8350-8356.	2.7	43
166	Lab-on-a-chip technologies for single-molecule studies. <i>Lab on A Chip</i> , 2013, 13, 2183.	3.1	42
167	Acoustic streaming vortices enable contactless, digital control of droplets. <i>Science Advances</i> , 2020, 6, eaba0606.	4.7	42
168	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.	2.7	41
169	Towards nanoporous polymer thin film-based drug delivery systems. <i>Thin Solid Films</i> , 2009, 517, 1794-1798.	0.8	40
170	Propagation of designer surface plasmons in structured conductor surfaces with parabolic gradient index. <i>Optics Express</i> , 2009, 17, 2997.	1.7	40
171	Acoustic beamwidth compressor using gradient-index phononic crystals. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 185502.	1.3	39
172	Electrically switchable phase-type fractal zone plates and fractal photon sieves. <i>Optics Express</i> , 2009, 17, 12418.	1.7	39
173	Design of acoustic beam aperture modifier using gradient-index phononic crystals. <i>Journal of Applied Physics</i> , 2012, 111, 123510.	1.1	39
174	Acoustically Driven Fluid and Particle Motion in Confined and Leaky Systems. <i>Physical Review Applied</i> , 2018, 9, .	1.5	38
175	On-chip stool liquefaction <i>via</i> acoustofluidics. <i>Lab on A Chip</i> , 2019, 19, 941-947.	3.1	38
176	Electrochemical micro-aptasensors for exosome detection based on hybridization chain reaction amplification. <i>Microsystems and Nanoengineering</i> , 2021, 7, 63.	3.4	38
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