Leslie Y Yeo

List of Publications by Year
in descending order

244	11,127	31902	37111
papers	citations	53 h-index	96 g-index

251	251	251	9054
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microscale acoustofluidics: Microfluidics driven via acoustics and ultrasonics. Reviews of Modern Physics, 2011, 83, 647-704.	16.4	742
2	Emerging Technologies for Next-Generation Point-of-Care Testing. Trends in Biotechnology, 2015, 33, 692-705.	4.9	583
3	Surface Acoustic Wave Microfluidics. Annual Review of Fluid Mechanics, 2014, 46, 379-406.	10.8	456
4	Microfluidic Devices for Bioapplications. Small, 2011, 7, 12-48.	5.2	455
5	Ultrafast microfluidics using surface acoustic waves. Biomicrofluidics, 2009, 3, 012002.	1.2	330
6	Fabrication of microfluidic devices using polydimethylsiloxane. Biomicrofluidics, 2010, 4, .	1.2	308
7	Particle concentration and mixing in microdrops driven by focused surface acoustic waves. Journal of Applied Physics, 2008, 104, .	1.1	268
8	Interfacial destabilization and atomization driven by surface acoustic waves. Physics of Fluids, 2008, 20, .	1.6	229
9	Piezoelectric ultrasonic micro/milli-scale actuators. Sensors and Actuators A: Physical, 2009, 152, 219-233.	2.0	195
10	Surface acoustic wave concentration of particle and bioparticle suspensions. Biomedical Microdevices, 2007, 9, 647-656.	1.4	191
11	Interfacial Jetting Phenomena Induced by Focused Surface Vibrations. Physical Review Letters, 2009, 103, 024501.	2.9	173
12	Microparticle collection and concentration via a miniature surface acoustic wave device. Lab on A Chip, 2007, 7, 618.	3.1	168
13	Uniform mixing in paper-based microfluidic systems using surface acoustic waves. Lab on A Chip, 2012, 12, 773-779.	3.1	153
14	Miniature inhalation therapy platform using surface acoustic wave microfluidic atomization. Lab on A Chip, 2009, 9, 2184.	3.1	151
15	Electrospinning carbon nanotube polymer composite nanofibers. Journal of Experimental Nanoscience, 2006, 1, 177-209.	1.3	134
16	Frequency effects on the scale and behavior of acoustic streaming. Physical Review E, 2014, 89, 013203.	0.8	130
17	Paper-Based Microfluidic Surface Acoustic Wave Sample Delivery and Ionization Source for Rapid and Sensitive Ambient Mass Spectrometry. Analytical Chemistry, 2011, 83, 3260-3266.	3.2	113
18	Atomization off thin water films generated by high-frequency substrate wave vibrations. Physical Review E, 2012, 86, 056312.	0.8	113

#	ARTICLE	IF	CITATIONS
19	Exploitation of surface acoustic waves to drive size-dependent microparticle concentration within a droplet. Lab on A Chip, 2010, 10, 2979.	3.1	110
20	A New ac Electrospray Mechanism by Maxwell-Wagner Polarization and Capillary Resonance. Physical Review Letters, 2004, 92, 133902.	2.9	107
21	Ultrasonic nebulization platforms for pulmonary drug delivery. Expert Opinion on Drug Delivery, 2010, 7, 663-679.	2.4	106
22	Rapid generation of protein aerosols and nanoparticles via surface acoustic wave atomization. Nanotechnology, 2008, 19, 455103.	1.3	103
23	Ultrafast, One-Step, Salt-Solution-Based Acoustic Synthesis of Ti₃C₂ MXene. ACS Nano, 2021, 15, 4287-4293.	7.3	103
24	AC electrospray biomaterials synthesis. Biomaterials, 2005, 26, 6122-6128.	5.7	99
25	Rapid fluid flow and mixing induced in microchannels using surface acoustic waves. Europhysics Letters, 2009, 87, 47003.	0.7	99
26	Evaporative self-assembly assisted synthesis of polymeric nanoparticles by surface acoustic wave atomization. Nanotechnology, 2008, 19, 145301.	1.3	98
27	Acoustically-Driven Trion and Exciton Modulation in Piezoelectric Two-Dimensional MoS₂. Nano Letters, 2016, 16, 849-855.	4.5	91
28	The extraction of liquid, protein molecules and yeast cells from paper through surface acoustic wave atomization. Lab on A Chip, 2010, 10, 470-476.	3.1	87
29	Unique fingering instabilities and soliton-like wave propagation in thin acoustowetting films. Nature Communications, 2012, 3, 1167.	5.8	86
30	Transmitting high power rf acoustic radiation via fluid couplants into superstrates for microfluidics. Applied Physics Letters, 2009, 94, .	1.5	84
31	Organosilane deposition for microfluidic applications. Biomicrofluidics, 2011, 5, 36501-365017.	1.2	84
32	Quantification of surface acoustic wave induced chaotic mixing-flows in microfluidic wells. Sensors and Actuators B: Chemical, 2011, 160, 1565-1572.	4.0	81
33	Effective pulmonary delivery of an aerosolized plasmid DNA vaccine via surface acoustic wave nebulization. Respiratory Research, 2014, 15, 60.	1.4	81
34	Film drainage between two surfactant-coated drops colliding at constant approach velocity. Journal of Colloid and Interface Science, 2003, 257, 93-107.	5.0	79
35	Particle concentration via acoustically driven microcentrifugation: microPIV flow visualization and numerical modelling studies. Microfluidics and Nanofluidics, 2010, 8, 73-84.	1.0	76
36	Template-free Synthesis and Encapsulation Technique for Layer-by-Layer Polymer Nanocarrier Fabrication. ACS Nano, 2011, 5, 9583-9591.	7.3	76

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37	A scaffold cell seeding method driven by surface acoustic waves. Biomaterials, 2007, 28, 4098-4104.	5.7	74
38	Microfluidic Colloidal Island Formation and Erasure Induced by Surface Acoustic Wave Radiation. Physical Review Letters, 2008, 101, 084502.	2.9	74
39	Surface Vibration Induced Spatial Ordering of Periodic Polymer Patterns on a Substrate. Langmuir, 2008, 24, 10629-10632.	1.6	71
40	A brief review of actuation at the micro-scale using electrostatics, electromagnetics and piezoelectric ultrasonics. Acoustical Science and Technology, 2010, 31, 115-123.	0.3	69
41	Capillary wave motion excited by high frequency surface acoustic waves. Physics of Fluids, 2010, 22, .	1.6	66
42	UV epoxy bonding for enhanced SAW transmission and microscale acoustofluidic integration. Lab on A Chip, 2012, 12, 2970.	3.1	66
43	Mixed mode of dissolving immersed nanodroplets at a solidâ€“water interface. Soft Matter, 2015, 11, 1889-1900.	1.2	65
44	High frequency acoustic cell stimulation promotes exosome generation regulated by a calcium-dependent mechanism. Communications Biology, 2020, 3, 553.	2.0	65
45	Effect of surface acoustic waves on the viability, proliferation and differentiation of primary osteoblast-like cells. Biomicrofluidics, 2009, 3, 034102.	1.2	64
46	Highly Ordered Arrays of Femtoliter Surface Droplets. Small, 2015, 11, 4850-4855.	5.2	64
47	Piezoelectric ultrasonic resonant motor with stator diameter less than 250 Âµm: theProteusmotor. Journal of Micromechanics and Microengineering, 2009, 19, 022001.	1.5	63
48	Pulmonary monoclonal antibody delivery via a portable microfluidic nebulization platform. Biomicrofluidics, 2015, 9, 052603.	1.2	63
49	HYbriD Resonant Acoustics (HYDRA). Advanced Materials, 2016, 28, 1970-1975.	11.1	63
50	STATIC AND SPONTANEOUS ELECTROWETTING. Modern Physics Letters B, 2005, 19, 549-569.	1.0	62
51	Continuous flow actuation between external reservoirs in small-scale devices driven by surface acoustic waves. Lab on A Chip, 2014, 14, 750-758.	3.1	62
52	Acoustically-mediated intracellular delivery. Nanoscale, 2018, 10, 13165-13178.	2.8	59
53	Microscale Capillary Wave Turbulence Excited by High Frequency Vibration. Langmuir, 2013, 29, 3835-3845.	1.6	58
54	Rapid Enhancement of Cellular Spheroid Assembly by Acoustically Driven Microcentrifugation. ACS Biomaterials Science and Engineering, 2016, 2, 1013-1022.	2.6	58

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55	Enabling practical surface acoustic wave nebulizer drug delivery via amplitude modulation. Lab on A Chip, 2014, 14, 1858-1865.	3.1	57
56	Planar microfluidic drop splitting and merging. Lab on A Chip, 2015, 15, 1942-1951.	3.1	54
57	Fluid-structure interaction in deformable microchannels. Physics of Fluids, 2012, 24, .	1.6	53
58	Electrohydrodynamic surface microvortices for mixing and particle trapping. Applied Physics Letters, 2006, 88, 233512.	1.5	52
59	Continuous tuneable droplet ejection via pulsed surface acoustic wave jetting. Soft Matter, 2018, 14, 5721-5727.	1.2	52
60	CFD simulation of aerosol delivery to a human lung via surface acoustic wave nebulization. Biomechanics and Modeling in Mechanobiology, 2017, 16, 2035-2050.	1.4	50
61	Electrokinetic actuation of low conductivity dielectric liquids. Sensors and Actuators B: Chemical, 2009, 140, 287-294.	4.0	49
62	Hydrophobicâ€Forceâ€Driven Removal of Organic Compounds from Water by Reduced Graphene Oxides Generated in Agarose Hydrogels. Angewandte Chemie - International Edition, 2018, 57, 11177-11181.	7.2	49
63	The Dynamics of Marangoni-Driven Local Film Drainage between Two Drops. Journal of Colloid and Interface Science, 2001, 241, 233-247.	5.0	48
64	Electrowetting films on parallel line electrodes. Physical Review E, 2006, 73, 011605.	0.8	48
65	Rapid production of protein-loaded biodegradable microparticles using surface acoustic waves. Biomicrofluidics, 2009, 3, 014102.	1.2	48
66	Universal nanodroplet branches from confining the Ouzo effect. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10332-10337.	3.3	48
67	Microfluidic blood plasma separation via bulk electrohydrodynamic flows. Biomicrofluidics, 2007, 1, 014103.	1.2	47
68	Surface acoustic waves as an energy source for drop scale synthetic chemistry. Lab on A Chip, 2009, 9, 754.	3.1	46
69	Miniaturized Labâ€onâ€aâ€Disc (miniLOAD). Small, 2012, 8, 1881-1888.	5.2	46
70	Engineering of Nebulized Metalâ€“Phenolic Capsules for Controlled Pulmonary Deposition. Advanced Science, 2020, 7, 1902650.	5.6	46
71	Acoustomicrofluidic Synthesis of Pristine Ultrathin Ti₃C₂T_z MXene Nanosheets and Quantum Dots. ACS Nano, 2021, 15, 12099-12108.	7.3	46
72	Marangoni instability of a thin liquid film resting on a locally heated horizontal wall. Physical Review E, 2003, 67, 056315.	0.8	45

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73	PHASE INVERSION AND ASSOCIATED PHENOMENA. Multiphase Science and Technology, 2000, 12, 66.	0.2	45
74	Nanoscale pillar hypersonic surface phononic crystals. Physical Review B, 2016, 94, .	1.1	43
75	Direct visualization of surface acoustic waves along substrates using smoke particles. Applied Physics Letters, 2007, 91, .	1.5	42
76	A piezoelectric ultrasonic linear micromotor using a slotted stator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1868-1874.	1.7	42
77	Diatrack particle tracking software: Review of applications and performance evaluation. Traffic, 2017, 18, 840-852.	1.3	42
78	A simple predictive tool for modelling phase inversion in liquidâ€“liquid dispersions. Chemical Engineering Science, 2002, 57, 1069-1072.	1.9	41
79	Monolithic Phononic Crystals with a Surface Acoustic Band Gap from Surface Phonon-Polariton Coupling. Physical Review Letters, 2014, 113, 215503.	2.9	41
80	Toward Complete Miniaturisation of Flow Injection Analysis Systems: Microfluidic Enhancement of Chemiluminescent Detection. Analytical Chemistry, 2014, 86, 10812-10819.	3.2	41
81	Dynamics of liquid films exposed to high-frequency surface vibration. Physical Review E, 2015, 91, 053015.	0.8	41
82	Microscale anechoic architecture: acoustic diffusers for ultra low power microparticle separation via traveling surface acoustic waves. Lab on A Chip, 2015, 15, 43-46.	3.1	41
83	Acousticâ€“Excitonic Coupling for Dynamic Photoluminescence Manipulation of Quasiâ€2D MoS₂ Nanoflakes. Advanced Optical Materials, 2015, 3, 888-894.	3.6	39
84	Nozzleless spray cooling using surface acoustic waves. Journal of Aerosol Science, 2015, 79, 48-60.	1.8	39
85	Assessment of the potential of a high frequency acoustomicrofluidic nebulisation platform for inhaled stem cell therapy. Integrative Biology (United Kingdom), 2016, 8, 12-20.	0.6	37
86	Submicron Particle and Cell Concentration in a Closed Chamber Surface Acoustic Wave Microcentrifuge. Analytical Chemistry, 2020, 92, 10024-10032.	3.2	37
87	High Frequency Sonoprocessing: A New Field of Cavitationâ€Free Acoustic Materials Synthesis, Processing, and Manipulation. Advanced Science, 2021, 8, 2001983.	5.6	37
88	Triple Degree-of-Freedom Piezoelectric Ultrasonic Micromotor via Flexural-Axial. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1716-1724.	1.7	35
89	Substrate dependent drop deformation and wetting under high frequency vibration. Soft Matter, 2011, 7, 7976.	1.2	35
90	Double flow reversal in thin liquid films driven by megahertz-order surface vibration. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20130765.	1.0	35

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91	Simple, low cost MHz-order acoustomicrofluidics using aluminium foil electrodes. Lab on A Chip, 2014, 14, 1802-1805.	3.1	35
92	Extensional flow of low-viscosity fluids in capillary bridges formed by pulsed surface acoustic wave jetting. New Journal of Physics, 2011, 13, 023005.	1.2	34
93	The appearance of boundary layers and drift flows due to high-frequency surface waves. Journal of Fluid Mechanics, 2012, 707, 482-495.	1.4	34
94	The axialâ€“torsional vibration of pretwisted beams. Journal of Sound and Vibration, 2009, 321, 115-136.	2.1	33
95	Poloidal Flow and Toroidal Particle Ring Formation in a Sessile Drop Driven by Megahertz Order Vibration. Langmuir, 2014, 30, 11243-11247.	1.6	33
96	Acoustomicrofluidic assembly of oriented and simultaneously activated metalâ€“organic frameworks. Nature Communications, 2019, 10, 2282.	5.8	33
97	Ultrafast Acoustofluidic Exfoliation of Stratified Crystals. Advanced Materials, 2018, 30, e1704756.	11.1	32
98	Rotational microfluidic motor for on-chip microcentrifugation. Applied Physics Letters, 2011, 98, .	1.5	31
99	Liquid Phase Acoustic Wave Exfoliation of Layered MoS₂: Critical Impact of Electric Field in Efficiency. Chemistry of Materials, 2018, 30, 5593-5601.	3.2	31
100	Electric tempest in a teacup: The tea leaf analogy to microfluidic blood plasma separation. Applied Physics Letters, 2006, 89, 103516.	1.5	30
101	An ultrasonic piezoelectric motor utilizing axial-torsional coupling in a pretwisted non-circular cross-sectioned prismatic beam. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 832-840.	1.7	30
102	Vibrationâ€Induced Deagglomeration and Shearâ€Induced Alignment of Carbon Nanotubes in Air. Advanced Functional Materials, 2015, 25, 1014-1023.	7.8	30
103	Onâ€Chip Generation of Vortical Flows for Microfluidic Centrifugation. Small, 2020, 16, e1903605.	5.2	30
104	Piezoelectric ultrasonic bidirectional linear actuator for micropositioning fulfilling Feynmanâ€™s criteria. Applied Physics Letters, 2008, 92, 014107.	1.5	29
105	The dynamics of surface acoustic waveâ€driven scaffold cell seeding. Biotechnology and Bioengineering, 2009, 103, 387-401.	1.7	29
106	Enhanced Ion Current Rectification in 2D Grapheneâ€Based Nanofluidic Devices. Advanced Science, 2015, 2, 1500062.	5.6	28
107	Acoustically-driven thread-based tuneable gradient generators. Lab on A Chip, 2016, 16, 2820-2828.	3.1	28
108	Cassieâ€“Wenzel wetting transition on nanostructured superhydrophobic surfaces induced by surface acoustic waves. Applied Physics Letters, 2020, 116, .	1.5	27

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109	Double aperture focusing transducer for controlling microparticle motions in trapezoidal microchannels with surface acoustic waves. Applied Physics Letters, 2009, 95, 134101.	1.5	26
110	Motility induced changes in viscosity of suspensions of swimming microbes in extensional flows. Soft Matter, 2015, 11, 4658-4668.	1.2	26
111	Amplitude modulation schemes for enhancing acoustically-driven microcentrifugation and micromixing. Biomicrofluidics, 2016, 10, 054106.	1.2	26
112	Drop manipulation and surgery using electric fields. Journal of Colloid and Interface Science, 2007, 306, 368-378.	5.0	25
113	Hydroxypropyl Cellulose Methacrylate as a Photoâ€Patternable and Biodegradable Hybrid Paper Substrate for Cell Culture and Other Bioapplications. Advanced Healthcare Materials, 2014, 3, 543-554.	3.9	25
114	Rapid microscale in-gel processing and digestion of proteins using surface acoustic waves. Lab on A Chip, 2010, 10, 1518.	3.1	24
115	Graphene-Based Planar Nanofluidic Rectifiers. Journal of Physical Chemistry C, 2014, 118, 21856-21865.	1.5	24
116	Stability and efficacy of synthetic cationic antimicrobial peptides nebulized using high frequency acoustic waves. Biomicrofluidics, 2016, 10, 034115.	1.2	24
117	Aggregation of a dense suspension of particles in a microwell using surface acoustic wave microcentrifugation. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	24
118	Acoustotemplating: rapid synthesis of freestanding quasi-2D MOF/graphene oxide heterostructures for supercapacitor applications. Journal of Materials Chemistry A, 2022, 10, 7058-7072.	5.2	24
119	Numerical modeling of electro-conjugate fluid flows. Sensors and Actuators A: Physical, 2010, 161, 152-157.	2.0	23
120	Unique flow transitions and particle collection switching phenomena in a microchannel induced by surface acoustic waves. Applied Physics Letters, 2010, 97, 234106.	1.5	23
121	Free Radical Generation from High-Frequency Electromechanical Dissociation of Pure Water. Journal of Physical Chemistry Letters, 2020, 11, 4655-4661.	2.1	23
122	Acoustofection: High-Frequency Vibrational Membrane Permeabilization for Intracellular siRNA Delivery into Nonadherent Cells. ACS Applied Bio Materials, 2021, 4, 2781-2789.	2.3	23
123	Continuous Production of Janus and Composite Liquid Marbles with Tunable Coverage. ACS Applied Materials & Interfaces, 2016, 8, 17751-17756.	4.0	22
124	Plug-and-actuate on demand: multimodal individual addressability of microarray plates using modular hybrid acoustic wave technology. Lab on A Chip, 2018, 18, 406-411.	3.1	22
125	In Situ Generation of Tunable Porosity Gradients in Hydrogelâ€Based Scaffolds for Microfluidic Cell Culture. Advanced Healthcare Materials, 2014, 3, 1655-1670.	3.9	21
126	RF-Activated Standing Surface Acoustic Wave for On-Chip Particle Manipulation. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1898-1904.	2.9	21

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127	In situ generation of plasma-activated aerosols via surface acoustic wave nebulization for portable spray-based surface bacterial inactivation. Lab on A Chip, 2020, 20, 1856-1868.	3.1	21
128	A description of phase inversion behaviour in agitated liquidâ€“liquid dispersions under the influence of the Marangoni effect. Chemical Engineering Science, 2002, 57, 3505-3520.	1.9	20
129	Graphene-mediated microfluidic transport and nebulization via high frequency Rayleigh wave substrate excitation. Lab on A Chip, 2016, 16, 3503-3514.	3.1	20
130	Lamb to Rayleigh Wave Conversion on Superstrates as a Means to Facilitate Disposable Acoustomicrofluidic Applications. Analytical Chemistry, 2019, 91, 12358-12368.	3.2	20
131	Simulation Studies of Phase Inversion in Agitated Vessels Using a Monte Carlo Technique. Journal of Colloid and Interface Science, 2002, 248, 443-454.	5.0	19
132	Increasing Exfoliation Yield in the Synthesis of MoS2 Quantum Dots for Optoelectronic and Other Applications through a Continuous Multicycle Acoustomicrofluidic Approach. ACS Applied Nano Materials, 2018, 1, 2503-2508.	2.4	19
133	Modelling and testing of a piezoelectric ultrasonic micro-motor suitable forin vivomicro-robotic applications. Journal of Micromechanics and Microengineering, 2010, 20, 115018.	1.5	18
134	Precise drop dispensation on superhydrophobic surfaces using acoustic nebulization. Soft Matter, 2013, 9, 3631.	1.2	18
135	High frequency acoustic nebulization for pulmonary delivery of antibiotic alternatives against Staphylococcus aureus. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 151, 181-188.	2.0	18
136	Multi-degree-of-freedom ultrasonic micromotor for guidewire and catheter navigation: The NeuroGlide actuator. Applied Physics Letters, 2012, 100, .	1.5	17
137	High frequency acoustic permeabilisation of drugs through tissue for localised mucosal delivery. Lab on A Chip, 2018, 18, 3272-3284.	3.1	17
138	Acoustopipetting: Tunable Nanoliter Sample Dispensing Using Surface Acoustic Waves. Analytical Chemistry, 2019, 91, 5621-5628.	3.2	17
139	Coalescence of Droplets in a Microwell Driven by Surface Acoustic Waves. Langmuir, 2021, 37, 1578-1587.	1.6	17
140	Laguerre Runge--Kutta--Fehlberg Method for Simulating Laser Pulse Propagation in Biological Tissue. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 105-112.	1.9	16
141	Fast Surface Acoustic Wave-Matrix-Assisted Laser Desorption Ionization Mass Spectrometry of Cell Response from Islets of Langerhans. Analytical Chemistry, 2013, 85, 2623-2629.	3.2	16
142	Acoustially-mediated microfluidic nanofiltration through graphene films. Nanoscale, 2017, 9, 6497-6508.	2.8	16
143	Ultrafast assembly of swordlike Cu₃(1,3,5-benzenetricarboxylate)_n metalâ€“organic framework crystals with exposed active metal sites. Nanoscale Horizons, 2020, 5, 1050-1057.	4.1	16
144	Programmable Phototaxis of Metalâ€“Phenolic Particle Microswimmers. Advanced Materials, 2021, 33, e2006177.	11.1	16

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145	Viscoelastic flow in a two-dimensional collapsible channel. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1204-1218.	1.0	15
146	Self-assembled highly crystalline TiO2 mesostructures for sunlight-driven, pH-responsive photodegradation of dyes. Materials Research Bulletin, 2014, 55, 13-18.	2.7	15
147	A Novel Acoustomicrofluidic Nebulization Technique Yielding New Crystallization Morphologies. Advanced Materials, 2018, 30, 1602040.	11.1	15
148	Fast three-dimensional micropatterning of PC12 cells in rapidly crosslinked hydrogel scaffolds using ultrasonic standing waves. Biofabrication, 2020, 12, 015013.	3.7	15
149	Surface acoustic wave solid-state rotational micromotor. Applied Physics Letters, 2012, 100, .	1.5	14
150	Controlled morphogenesis and self-assembly of bismutite nanocrystals into three-dimensional nanostructures and their applications. Journal of Materials Chemistry A, 2014, 2, 2275-2282.	5.2	14
151	Focused ion beam milling of microchannels in lithium niobate. Biomicrofluidics, 2012, 6, 012819.	1.2	13
152	An emerging reactor technology for chemical synthesis: Surface acoustic wave-assisted closed-vessel Suzuki coupling reactions. Ultrasonics Sonochemistry, 2014, 21, 1305-1309.	3.8	13
153	Tear Film Extensional Viscosity Is a Novel Potential Biomarker of Dry Eye Disease. Ophthalmology, 2019, 126, 1196-1198.	2.5	13
154	Hydrodynamic instability of a thin viscous film between two drops. Journal of Colloid and Interface Science, 2003, 261, 575-579.	5.0	12
155	Extensional viscosity of copper nanowire suspensions in an aqueous polymer solution. Soft Matter, 2015, 11, 8076-8082.	1.2	12
156	Acoustically enhanced heat transport. Review of Scientific Instruments, 2016, 87, 014902.	0.6	12
157	Acoustomicrofluidic Concentration and Signal Enhancement of Fluorescent Nanodiamond Sensors. Analytical Chemistry, 2021, 93, 16133-16141.	3.2	12
158	Shortâ€Ðuration High Frequency MegaHertzâ€Ørder Nanomechanostimulation Drives Early and Persistent Osteogenic Differentiation in Mesenchymal Stem Cells. Small, 2022, 18, e2106823.	5.2	12
159	Piezoelectric ultrasonic resonant micromotor with a volume of less than 1 mm³ for use in medical microbots. , 2009, , .		11
160	UV/ozone-assisted low temperature preparation of mesoporous TiO₂with tunable phase composition and enhanced solar light photocatalytic activity. Journal of Materials Chemistry A, 2014, 2, 18791-18795.	5.2	11
161	Acoustically Driven Micromixing: Effect of Transducer Geometry. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1387-1394.	1.7	11
162	Enhanced Antimicrobial Activity and Low Phytotoxicity of Acoustically Synthesized Large Aspect Ratio Cu-BTC Metalâ€“Organic Frameworks with Exposed Metal Sites. ACS Applied Materials & Interfaces, 2021, 13, 58309-58318.	4.0	11

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163	Using laser Doppler vibrometry to measure capillary surface waves on fluid-fluid interfaces. Biomicrofluidics, 2010, 4, .	1.2	10
164	Surface acoustic wave micromotor with arbitrary axis rotational capability. Applied Physics Letters, 2011, 99, .	1.5	10
165	Dissolution dynamics of a suspension droplet in a binary solution for controlled nanoparticle assembly. Nanoscale, 2017, 9, 13441-13448.	2.8	10
166	A Facile and Flexible Method for On-Demand Directional Speed Tunability in the Miniaturised Lab-on-a-Disc. Scientific Reports, 2017, 7, 6652.	1.6	10
167	Microfluidic dielectrophoretic cell manipulation towards stable cell contact assemblies. Biomedical Microdevices, 2018, 20, 95.	1.4	10
168	Hybrid finite-difference/lattice Boltzmann simulations of microchannel and nanochannel acoustic streaming driven by surface acoustic waves. Physical Review Fluids, 2018, 3, .	1.0	10
169	Nanoscale plasma-activated aerosol generation for in situ surface pathogen disinfection. Microsystems and Nanoengineering, 2022, 8, 41.	3.4	10
170	Hybrid Surface and Bulk Resonant Acoustics for Concurrent Actuation and Sensing on a Single Microfluidic Device. Analytical Chemistry, 2018, 90, 5335-5342.	3.2	9
171	In vivo deposition study of a new generation nebuliser utilising hybrid resonant acoustic (HYDRA) technology. International Journal of Pharmaceutics, 2020, 580, 119196.	2.6	9
172	Acoustic cavitation at low gas pressures in PZT-based ultrasonic systems. Ultrasonics Sonochemistry, 2021, 73, 105493.	3.8	9
173	Nebulization of siRNA for inhalation therapy based on a microfluidic surface acoustic wave platform. Ultrasonics Sonochemistry, 2022, 88, 106088.	3.8	9
174	Micromotor of Less Than 1 mm^3 Volume for In Vivo Medical Procedures. , 2009, , .		8
175	UV Direct Write Metal Enhanced Redox (MER) Domain Engineering for Realization of Surface Acoustic Devices on Lithium Niobate. Advanced Materials Interfaces, 2014, 1, 1400006.	1.9	8
176	Hydrophobicâ€Forceâ€Driven Removal of Organic Compounds from Water by Reduced Graphene Oxides Generated in Agarose Hydrogels. Angewandte Chemie, 2018, 130, 11347-11351.	1.6	8
177	Miniaturised acoustofluidic tactile haptic actuator. Soft Matter, 2019, 15, 4146-4152.	1.2	8
178	Oscillation characteristics of low Weber number impinging micro-droplets. Theoretical and Computational Fluid Dynamics, 2019, 33, 197-213.	0.9	8
179	Enhancing rate of water absorption in seeds via a miniature surface acoustic wave device. Royal Society Open Science, 2019, 6, 181560.	1.1	8
180	Pulmonary Deposition of Radionucleotide-Labeled Palivizumab: Proof-of-Concept Study. Frontiers in Pharmacology, 2020, 11, 1291.	1.6	8

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181	Rotating bouncing disks, tossing pizza dough, and the behavior of ultrasonic motors. Physical Review E, 2009, 80, 046201.	0.8	7
182	Phononâ€polariton entrapment in homogenous surface phonon cavities. Annalen Der Physik, 2016, 528, 365-372.	0.9	7
183	Enhancing greywater treatment via MHz-Order surface acoustic waves. Water Research, 2020, 169, 115187.	5.3	7
184	Concentration and mixing of particles in microdrops driven by focused surface acoustic waves. , 2008, , .		6
185	MicroPIV and micromixing study of corona wind induced microcentrifugation flows in a cylindrical cavity. Microfluidics and Nanofluidics, 2010, 8, 231-241.	1.0	6
186	Acoustic enhancement of aerobic greywater treatment processes. Journal of Water Process Engineering, 2021, 44, 102321.	2.6	6
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