

Xiao-Jun Liu

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189
papers

3,143
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212
ext. papers

4,049
ext. citations

4.3
avg, IF

5.94
L-index

#	Paper	IF	Citations
189	Topological Creation of Acoustic Pseudospin Multipoles in a Flow-Free Symmetry-Broken Metamaterial Lattice. <i>Physical Review Letters</i> , 2017 , 118, 084303	7.4	214
188	Directional Acoustic Antennas Based on Valley-Hall Topological Insulators. <i>Advanced Materials</i> , 2018 , 30, e1803229	24	105
187	Topological Acoustic Delay Line. <i>Physical Review Applied</i> , 2018 , 9,	4.3	97
186	Acoustic holography based on composite metasurface with decoupled modulation of phase and amplitude. <i>Applied Physics Letters</i> , 2017 , 110, 191901	3.4	90
185	Programmable Coding Acoustic Topological Insulator. <i>Advanced Materials</i> , 2018 , 30, e1805002	24	89
184	Broadband manipulation of acoustic wavefronts by pentamode metasurface. <i>Applied Physics Letters</i> , 2015 , 107, 221906	3.4	86
183	Non-Hermitian Sonic Second-Order Topological Insulator. <i>Physical Review Letters</i> , 2019 , 122, 195501	7.4	81
182	Conversion of sound radiation pattern via gradient acoustic metasurface with space-coiling structure. <i>Applied Physics Express</i> , 2015 , 8, 027301	2.4	74
181	Asymmetric absorber with multiband and broadband for low-frequency sound. <i>Applied Physics Letters</i> , 2017 , 111, 143502	3.4	69
180	Experimental verification of acoustic pseudospin multipoles in a symmetry-broken snowflakelike topological insulator. <i>Physical Review B</i> , 2017 , 96,	3.3	66
179	Perfect absorption of low-frequency sound waves by critically coupled subwavelength resonant system. <i>Applied Physics Letters</i> , 2017 , 110, 023502	3.4	60
178	Tunable Fano Resonances in Three-Layered Bimetallic Au and Ag Nanoshell. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23797-23801	3.8	56
177	Experimental demonstration of topologically protected efficient sound propagation in an acoustic waveguide network. <i>Physical Review B</i> , 2017 , 95,	3.3	51
176	Targeted Blue Nanoparticles as Photoacoustic Contrast Agent for Brain Tumor Delineation. <i>Nano Research</i> , 2011 , 4, 1163-1173	10	47
175	Acoustic subwavelength imaging of subsurface objects with acoustic resonant metalens. <i>Applied Physics Letters</i> , 2013 , 103, 224104	3.4	45
174	Deep-Subwavelength Holey Acoustic Second-Order Topological Insulators. <i>Advanced Materials</i> , 2019 , 31, e1904682	24	44
173	Tunable near-infrared optical properties of three-layered metal nanoshells. <i>Journal of Chemical Physics</i> , 2008 , 129, 074711	3.9	44

172	Photoacoustic tomography of tissue subwavelength microstructure with a narrowband and low frequency system. <i>Applied Physics Letters</i> , 2012 , 101, 034105	3-4	43
171	Realization of acoustic wave directivity at low frequencies with a subwavelength Mie resonant structure. <i>Applied Physics Letters</i> , 2017 , 110, 123507	3-4	42
170	Multiband quasi-perfect low-frequency sound absorber based on double-channel Mie resonator. <i>Applied Physics Letters</i> , 2018 , 112, 033507	3-4	41
169	Acoustic planar hyperlens based on anisotropic density-near-zero metamaterials. <i>Applied Physics Letters</i> , 2015 , 107, 133503	3-4	40
168	Optimization of the bimetallic gold and silver alloy nanoshell for biomedical applications in vivo. <i>Applied Physics Letters</i> , 2010 , 97, 061904	3-4	39
167	Precise rainbow trapping for low-frequency acoustic waves with micro Mie resonance-based structures. <i>Applied Physics Letters</i> , 2016 , 108, 063501	3-4	39
166	Broadband near-perfect absorption of low-frequency sound by subwavelength metasurface. <i>Applied Physics Letters</i> , 2019 , 115, 103503	3-4	37
165	Optical investigation on cadmium-doped zinc oxide nanoparticles synthesized by using a sonochemical method. <i>CrystEngComm</i> , 2012 , 14, 240-245	3-3	37
164	Influence of dielectric core, embedding medium and size on the optical properties of gold nanoshells. <i>Solid State Communications</i> , 2008 , 146, 7-11	1.6	37
163	Photoacoustic spectrum analysis for microstructure characterization in biological tissue: analytical model. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1473-80	3-5	36
162	Acoustic total transmission and total reflection in zero-index metamaterials with defects. <i>Applied Physics Letters</i> , 2013 , 102, 174104	3-4	36
161	Controlling sound transmission with density-near-zero acoustic membrane network. <i>Journal of Applied Physics</i> , 2015 , 118, 024505	2-5	35
160	Evaluation of bladder microvasculature with high-resolution photoacoustic imaging. <i>Optics Letters</i> , 2011 , 36, 4815-7	3	34
159	Extraordinary acoustic transmission at low frequency by a tunable acoustic impedance metasurface based on coupled Mie resonators. <i>Applied Physics Letters</i> , 2017 , 110, 233502	3-4	31
158	Broadband Airy-like beams by coded acoustic metasurfaces. <i>Applied Physics Letters</i> , 2019 , 114, 053504	3-4	31
157	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. <i>Scientific Reports</i> , 2016 , 6, 16937	4-9	29
156	Pauli equation for a charged spin particle on a curved surface in an electric and magnetic field. <i>Physical Review A</i> , 2014 , 90,	2.6	29
155	Asymmetric acoustic transmission with a lossy gradient-index metasurface. <i>Applied Physics Letters</i> , 2018 , 113, 121901	3-4	29

154	Quantitative detection of stochastic microstructure in turbid media by photoacoustic spectral matching. <i>Applied Physics Letters</i> , 2013 , 102, 114102	3.4	28
153	Acoustic logic gates and Boolean operation based on self-collimating acoustic beams. <i>Applied Physics Letters</i> , 2015 , 106, 113503	3.4	27
152	Reconstruction of high quality photoacoustic tomography with a limited-view scanning. <i>Optics Express</i> , 2010 , 18, 2760-6	3.3	27
151	Mathematical operations for acoustic signals based on layered labyrinthine metasurfaces. <i>Applied Physics Letters</i> , 2017 , 110, 011904	3.4	26
150	Broadband acoustic focusing by Airy-like beams based on acoustic metasurfaces. <i>Journal of Applied Physics</i> , 2018 , 123, 044503	2.5	25
149	Subwavelength multiple topological interface states in one-dimensional labyrinthine acoustic metamaterials. <i>Physical Review B</i> , 2019 , 99,	3.3	24
148	Generation of fractional acoustic vortex with a discrete Archimedean spiral structure plate. <i>Applied Physics Letters</i> , 2018 , 112, 173501	3.4	23
147	Noninvasive Assessment of Early Dental Lesion Using a Dual-Contrast Photoacoustic Tomography. <i>Scientific Reports</i> , 2016 , 6, 21798	4.9	23
146	Studies of two-solar-mass hybrid stars within the framework of Dyson-Schwinger equations. <i>Physical Review D</i> , 2015 , 92,	4.9	23
145	Quantitative imaging of microvasculature in deep tissue with a spectrum-based photo-acoustic microscopy. <i>Optics Letters</i> , 2015 , 40, 970-3	3	22
144	Acoustic analog computing based on a reflective metasurface with decoupled modulation of phase and amplitude. <i>Journal of Applied Physics</i> , 2018 , 123, 091704	2.5	22
143	Continuum study of the QCD phase diagram through an OPE-modified gluon propagator. <i>Physical Review D</i> , 2016 , 93,	4.9	22
142	Acoustic topological insulator by honeycomb sonic crystals with direct and indirect band gaps. <i>New Journal of Physics</i> , 2018 , 20, 093027	2.9	22
141	Statistical behavior of electrical breakdown in insulating polymers. <i>Journal of Applied Physics</i> , 2010 , 107, 064107	2.5	21
140	Acoustic analog computing system based on labyrinthine metasurfaces. <i>Scientific Reports</i> , 2018 , 8, 10103	4.9	21
139	Tunable and broadband asymmetric sound absorptions with coupling of acoustic bright and dark modes. <i>Journal of Sound and Vibration</i> , 2020 , 479, 115371	3.9	20
138	Reconfigurable sound anomalous absorptions in transparent waveguide with modularized multi-order Helmholtz resonator. <i>Scientific Reports</i> , 2018 , 8, 15678	4.9	20
137	Fano-Like Resonances in Asymmetric Homodimer of Gold Elliptical Nanowires. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13745-13748	3.8	19

136	Dynamical chiral symmetry breaking in the NJL model with a constant external magnetic field. <i>Physical Review D</i> , 2015 , 91,	4.9	18
135	Strong Plasmon-Exciton-Plasmon Multimode Couplings in Three-Layered Ag-Aggregates-Ag Nanostructures. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25455-25462	3.8	17
134	Metasurface-enabled airborne fractional acoustic vortex emitter. <i>Applied Physics Letters</i> , 2018 , 113, 173502	3.4	17
133	Low-frequency perfect sound absorption achieved by a modulus-near-zero metamaterial. <i>Scientific Reports</i> , 2019 , 9, 13482	4.9	16
132	Acoustic holography using composite metasurfaces. <i>Applied Physics Letters</i> , 2020 , 116, 030501	3.4	16
131	Simulation of the formation and characteristics of ultrasonic fountain. <i>Ultrasonics Sonochemistry</i> , 2016 , 32, 241-246	8.9	16
130	Tunable directional subwavelength acoustic antenna based on Mie resonance. <i>Scientific Reports</i> , 2018 , 8, 10049	4.9	16
129	Compact transformable acoustic logic gates for broadband complex Boolean operations based on density-near-zero metamaterials. <i>Applied Physics Letters</i> , 2016 , 108, 183508	3.4	16
128	Tunable perfect negative reflection based on an acoustic coding metasurface. <i>Applied Physics Letters</i> , 2019 , 114, 203505	3.4	15
127	Acoustic accelerating beam based on a curved metasurface. <i>Applied Physics Letters</i> , 2019 , 114, 113507	3.4	15
126	Specific multiple-scattering process in acoustic cloak with multilayered homogeneous isotropic materials. <i>Journal of Applied Physics</i> , 2008 , 104, 104911	2.5	15
125	A flat acoustic lens to generate a Bessel-like beam. <i>Ultrasonics</i> , 2017 , 80, 66-71	3.5	14
124	Acoustic metamaterial antennas for combined highly directive-sensitive detection. <i>Applied Physics Letters</i> , 2019 , 115, 053501	3.4	14
123	Wide-angle asymmetric acoustic absorber based on one-dimensional lossy Bragg stacks. <i>Journal of the Acoustical Society of America</i> , 2017 , 142, EL69	2.2	14
122	Localized surface plasmon resonance properties of two-layered gold nanowire: Effects of geometry, incidence angle, and polarization. <i>Journal of Applied Physics</i> , 2011 , 109, 083540	2.5	14
121	Photoacoustic eigen-spectrum from light-absorbing microspheres and its application in noncontact elasticity evaluation. <i>Applied Physics Letters</i> , 2017 , 110, 054101	3.4	13
120	A tunable acoustic filter made by periodical structured materials. <i>Applied Physics Letters</i> , 2009 , 94, 181908	3.4	13
119	Negative refraction induced acoustic concentrator and the effects of scattering cancellation, imaging, and mirage. <i>Physical Review B</i> , 2012 , 86,	3.3	13

118	Dynamic generation and modulation of acoustic bottle-beams by metasurfaces. <i>Scientific Reports</i> , 2018 , 8, 12682	4.9	13
117	Pseudospin induced topological corner state at intersecting sonic lattices. <i>Physical Review B</i> , 2020 , 101,	3.3	12
116	In Vivo Imaging of Microvasculature during Anesthesia with High-Resolution Photoacoustic Microscopy. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 1110-1118	3.5	12
115	Photoacoustics and speed-of-sound dual mode imaging with a long depth-of-field by using annular ultrasound array. <i>Optics Express</i> , 2017 , 25, 6141-6150	3.3	12
114	Subwavelength broadband sound absorber based on a composite metasurface. <i>Scientific Reports</i> , 2020 , 10, 13823	4.9	11
113	Enhanced directional acoustic emission based on anisotropic metamaterials. <i>Applied Physics Letters</i> , 2019 , 114, 013506	3.4	11
112	Non-Hermitian topological whispering gallery. <i>Nature</i> , 2021 , 597, 655-659	50.4	11
111	Multi-bottle beam generation using acoustic holographic lens. <i>Applied Physics Letters</i> , 2020 , 116, 133502	3.4	10
110	Asymmetric coding metasurfaces for the controllable projection of acoustic images. <i>Physical Review Materials</i> , 2019 , 3,	3.2	10
109	Achieving acoustic topological valley-Hall states by modulating the subwavelength honeycomb lattice. <i>Scientific Reports</i> , 2018 , 8, 16784	4.9	10
108	Study of lanthanide doped zinc oxide nanoparticles synthesized via a sonochemical method. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 1280-1284	3.6	9
107	Influences of the geometry and acoustic parameter on acoustic radiation forces on three-layered nucleate cells. <i>Journal of Applied Physics</i> , 2017 , 122, 094902	2.5	9
106	Subwavelength Acoustic Valley-Hall Topological Insulators Using Soda Cans Honeycomb Lattices. <i>Research</i> , 2019 , 2019, 5385763	7.8	9
105	Tunable photoacoustic properties of gold nanoshells with near-infrared optical responses. <i>Journal of Applied Physics</i> , 2017 , 122, 134901	2.5	8
104	Modulation of acoustic waves by a broadband metagrating. <i>Scientific Reports</i> , 2019 , 9, 7271	4.9	8
103	Efficient Magnetic Resonance Amplification and Near-Field Enhancement from Gain-Assisted Silicon Nanospheres and Nanoshells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13227-13233	3.8	8
102	Manipulation of acoustic transmission by zero-index metamaterial with rectangular defect. <i>Journal of Applied Physics</i> , 2017 , 122, 215103	2.5	8
101	Broadband acoustic logic gates in a circular waveguide with multiple ports. <i>Applied Physics Letters</i> , 2017 , 111, 243501	3.4	8

100	Photoacoustic tomography extracted from speckle noise in acoustically inhomogeneous tissue. <i>Optics Express</i> , 2013 , 21, 18061-7	3.3	8
99	Asymmetric phase modulation of acoustic waves through unidirectional metasurfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	8
98	Aperiodic Metagratings for High-Performance Multifunctional Acoustic Lenses. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000542	6.8	7
97	Broadband integrative acoustic asymmetric focusing lens based on mode-conversion meta-atoms. <i>Applied Physics Letters</i> , 2020 , 116, 223505	3.4	7
96	Multifunctional Asymmetric Sound Manipulations by a Passive Phased Array Prism. <i>Physical Review Applied</i> , 2019 , 12,	4.3	7
95	Dual-Band Fano Resonance of Low-Frequency Sound Based on Artificial Mie Resonances. <i>Advanced Science</i> , 2019 , 6, 1901307	13.6	7
94	Acoustic interference lens for trapping micro-scale particles. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 455302	3	7
93	Reflected acoustic wavefront manipulation by an ultrathin metasurface based on three-dimensional generalized Snell's law. <i>Applied Physics Express</i> , 2019 , 12, 094001	2.4	7
92	Coupled resonant modes in twisted acoustic metamaterials. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 805-811	2.6	7
91	Acoustic cloak with duplex communication ability constructed by multilayered homogeneous isotropic materials. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 913-919	2.6	7
90	Remote whispering metamaterial for non-radiative transceiving of ultra-weak sound. <i>Nature Communications</i> , 2021 , 12, 3670	17.4	7
89	Broadband acoustic converging and asymmetric converging based on thermoacoustic phased arrays. <i>Journal of Applied Physics</i> , 2019 , 125, 024504	2.5	7
88	Photoacoustic tomography based on the Green's function retrieval with ultrasound interferometry for sample partially behind an acoustically scattering layer. <i>Applied Physics Letters</i> , 2015 , 106, 234101	3.4	6
87	Acoustic hook beam lens for particle trapping. <i>Applied Physics Express</i> , 2020 , 13, 064003	2.4	6
86	The second-harmonic generation of a conical sound source. <i>Journal of the Acoustical Society of America</i> , 1998 , 104, 2645-2653	2.2	6
85	Manipulating Backward Propagation of Acoustic Waves by a Periodical Structure. <i>Chinese Physics Letters</i> , 2016 , 33, 114302	1.8	6
84	Modulation of acoustic radiation forces on three-layered nucleate cells in a focused Gaussian beam. <i>Europhysics Letters</i> , 2018 , 124, 24004	1.6	6
83	Binary-phase acoustic passive logic gates. <i>Scientific Reports</i> , 2019 , 9, 8355	4.9	5

82	Low-artifact and long depth of field photoacoustic microscopy using a Gaussian-weighted annular array. <i>Applied Physics Express</i> , 2019 , 12, 057001	2.4	5
81	Acoustic energy harvesting for low-frequency airborne sound based on compound Mie resonances. <i>Applied Physics Express</i> , 2019 , 12, 044002	2.4	5
80	Unidirectional acoustic transmission in asymmetric bullseye structure. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015 , 58, 1-5	3.6	5
79	Acoustic spin Hall-like effect in hyperbolic metamaterials controlled by the helical wave. <i>Scientific Reports</i> , 2018 , 8, 11113	4.9	5
78	Modulation of anisotropic middle layer on the plasmon couplings in sandwiched gold nanoshells. <i>Gold Bulletin</i> , 2012 , 45, 197-201	1.6	5
77	Effects of poroelastic coefficients on normal vibration modes in vocal-fold tissues. <i>Journal of the Acoustical Society of America</i> , 2011 , 129, 934-43	2.2	5
76	Low-Frequency, Open, Sound-Insulation Barrier by Two Oppositely Oriented Helmholtz Resonators.. <i>Micromachines</i> , 2021 , 12,	3.3	5
75	High efficiency acoustic Fresnel lens. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 065302	3	5
74	Emitting long-distance spiral airborne sound using low-profile planar acoustic antenna. <i>Nature Communications</i> , 2021 , 12, 2006	17.4	5
73	High absorption asymmetry enabled by a deep-subwavelength ventilated sound absorber. <i>Applied Physics Letters</i> , 2021 , 118, 263502	3.4	5
72	Reflection-mode optical-resolution photoacoustic microscopy with high detection sensitivity by using a perforated acoustic mirror. <i>Applied Physics Letters</i> , 2018 , 113, 183706	3.4	5
71	Negative acoustic radiation force induced on an elastic sphere by laser irradiation. <i>Physical Review E</i> , 2018 , 98,	2.4	5
70	Dynamic focusing of acoustic wave utilizing a randomly scattering lens and a single fixed transducer. <i>Journal of Applied Physics</i> , 2017 , 121, 174901	2.5	4
69	Acoustic radiation forces on three-layered drug particles in focused Gaussian beams. <i>Journal of the Acoustical Society of America</i> , 2019 , 145, 1331	2.2	4
68	Enhanced Low-Frequency Monopole and Dipole Acoustic Antennas Based on a Subwavelength Bianisotropic Structure. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900970	6.8	4
67	Broadband and flexible acoustic focusing by metafiber bundles. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 245102	3	4
66	Photoacoustic imaging in scattering media by combining a correlation matrix filter with a time reversal operator. <i>Optics Express</i> , 2017 , 25, 22840-22850	3.3	4
65	Enhanced Fractional Acoustic Vortices by an Annulus Acoustic Metasurface with Multi-Layered Rings. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000356	6.8	4

64	Multiband asymmetric sound absorber enabled by ultrasparse Mie resonators. <i>Journal of the Acoustical Society of America</i> , 2021 , 149, 2072	2.2	4
63	Experimental demonstration of a reconfigurable acoustic second-order topological insulator using condensed soda cans array. <i>Applied Physics Letters</i> , 2021 , 118, 203501	3-4	4
62	Particle Trapping in Arbitrary Trajectories Using First-Order Bessel-Like Acoustic Beams. <i>Physical Review Applied</i> , 2021 , 15,	4-3	4
61	Perfect monochromatic acoustic anti-reflection: A first-principles study. <i>Journal of Applied Physics</i> , 2017 , 121, 094504	2.5	3
60	Ultrathin acoustic cloaking by a conformal hybrid metasurface. <i>Scientific Reports</i> , 2019 , 9, 12700	4-9	3
59	Laser irradiation modulating the acoustic radiation force acting on a liquid ball in a plane progressive wave. <i>AIP Advances</i> , 2019 , 9, 045121	1.5	3
58	Noncommutative field with constant background fields and neutral fermions. <i>Physical Review D</i> , 2015 , 91,	4-9	3
57	Acoustic tweezing for both Rayleigh and Mie particles based on acoustic focused petal beams. <i>Applied Physics Letters</i> , 2020 , 116, 263504	3-4	3
56	Comment on [The second harmonic component in the Bessel beam [Appl. Phys. Lett. 68, 608 (1996)]. <i>Applied Physics Letters</i> , 1997 , 71, 722-722	3-4	3
55	Photoacoustic-ultrasonic dual-mode microscopy with local speed-of-sound estimation. <i>Optics Letters</i> , 2020 , 45, 3840-3843	3	3
54	Simultaneous scattering-absorption dual-modal cell imaging in a single shot by a transmission-mode photoacoustic microscope. <i>Optics Letters</i> , 2020 , 45, 5832-5835	3	3
53	Artifact-free imaging through a bone-like layer by using an ultrasonic-guided photoacoustic microscopy. <i>Optics Letters</i> , 2019 , 44, 1273-1276	3	3
52	Acoustic logic gates by a curved waveguide with ultrathin metasurfaces. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 015301	3	3
51	Observation of Ultrabroadband Acoustic Focusing Based on V-Shaped Meta-Atoms. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900956	6.8	3
50	Pseudospin-dependent acoustic topological insulator by airborne sonic crystals with a triangular lattice. <i>Applied Physics Express</i> , 2019 , 12, 044003	2.4	3
49	Acoustic trapping of particles using a Chinese taiji lens. <i>Ultrasonics</i> , 2021 , 110, 106262	3-5	3
48	Noninvasive low-cycle fatigue characterization at high depth with photoacoustic eigen-spectrum analysis. <i>Scientific Reports</i> , 2018 , 8, 7751	4-9	3
47	Ultra-sparse metamaterials absorber for broadband low-frequency sound with free ventilation. <i>Journal of the Acoustical Society of America</i> , 2021 , 150, 1044	2.2	3

46	Design of LEAF control system. <i>Radiation Detection Technology and Methods</i> , 2019 , 3, 1	0.7	2
45	Reconstruction of Photoacoustic Tomography Inside a Scattering Layer Using a Matrix Filtering Method. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2071	2.6	2
44	High-efficiency anomalous reflection of acoustic waves with a passive-lossless metasurface. <i>Applied Physics Express</i> , 2019 , 12, 047003	2.4	2
43	Noncontact evaluation of full elastic constants of perovskite MAPbBr via Photoacoustic eigen-spectrum analysis in one test. <i>Scientific Reports</i> , 2020 , 10, 9994	4.9	2
42	Chiral phase transition in QED3 at finite temperature and impurity potential. <i>Physical Review D</i> , 2016 , 93,	4.9	2
41	Modulating acoustic Fano resonance of self-collimated sound beams in two dimensional sonic crystals. <i>Ultrasonics</i> , 2019 , 91, 129-133	3.5	2
40	Improved digital breast tomosynthesis images using automated ultrasound. <i>Medical Physics</i> , 2014 , 41, 061911	4.4	2
39	Broadband acoustic vortex beam generator based on coupled resonances. <i>Applied Physics Letters</i> , 2021 , 118, 143503	3.4	2
38	Ultrathin Composite Metasurface for Absorbing Subkilohertz Low-Frequency Underwater Sound. <i>Physical Review Applied</i> , 2021 , 16,	4.3	2
37	Imaging acoustic sources through scattering media by using a correlation full-matrix filter. <i>Scientific Reports</i> , 2018 , 8, 15611	4.9	2
36	Ultra-Thin Metasurface-Based Absorber of Low-Frequency Sound With Bandwidth Optimization. <i>Frontiers in Materials</i> , 2021 , 8,	4	2
35	Metasurface absorber for ultra-broadband sound via over-damped modes coupling. <i>Applied Physics Letters</i> , 2022 , 120, 083504	3.4	2
34	An extremely anisotropic phononic crystal with open elliptical dispersion for energy convergence and beam squeezing. <i>Applied Physics Letters</i> , 2020 , 117, 183501	3.4	1
33	Multiple information extracted from photoacoustic radio-frequency signal and the application on tissue classification. <i>Ultrasonics Sonochemistry</i> , 2020 , 66, 105095	8.9	1
32	Broadband acoustic subwavelength imaging by rapidly modulated stratified media. <i>Scientific Reports</i> , 2018 , 8, 4934	4.9	1
31	Cadmium-Alloyed Zinc Oxide Nanocrystals in the Quantum Confinement Region with Intense Visible Luminescence. <i>Crystal Research and Technology</i> , 2018 , 53, 1800031	1.3	1
30	Non-diffraction propagation of acoustic waves in a rapidly modulated stratified medium. <i>Scientific Reports</i> , 2017 , 7, 8184	4.9	1
29	Optimization of ultrathin carbon film coated silver nanoshell for biomedical applications in vivo. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 105, 439-443	2.6	1

28	Study of lanthanide liquid-crystalline complexes by Photoacoustic and luminescence spectroscopy. <i>European Physical Journal: Special Topics</i> , 2008 , 153, 49-51	2.3	1
27	Broadband Bidirectional and Multi-Channel Unidirectional Acoustic Insulation by Mode-Conversion Phased Units. <i>Frontiers in Materials</i> , 2021 , 8,	4	1
26	Multifunctional reflected lenses based on aperiodic acoustic metagratings. <i>Applied Physics Letters</i> , 2021 , 119, 173501	3.4	1
25	Pseudospin modes of surface acoustic wave and topologically protected sound transmission in phononic crystal. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 227805	0.6	1
24	Asymmetric acoustic retroreflection with a non-Hermitian metasurface mirror. <i>Applied Physics Express</i> ,	2.4	1
23	Design of equipment interlocking control system for LEAF. <i>Radiation Detection Technology and Methods</i> , 2020 , 4, 25-30	0.7	1
22	Enhancement of photoacoustic microscopy by using a non-negative constrained pulse decomposition method. <i>Applied Physics Express</i> , 2020 , 13, 017005	2.4	1
21	High-Sensitivity Optical-Resolution Photoacoustic Microscopy with an Optical-Acoustic Combiner Based on an Off-Axis Parabolic Acoustic Mirror. <i>Photonics</i> , 2021 , 8, 127	2.2	1
20	Generation of diverse acoustic vortices by superimposed multipole emissions. <i>Physical Review B</i> , 2021 , 103,	3.3	1
19	Topological Insulators: Deep-Subwavelength Holey Acoustic Second-Order Topological Insulators (Adv. Mater. 49/2019). <i>Advanced Materials</i> , 2019 , 31, 1970344	2.4	1
18	Broadband ultrasound-trapping barrier based on hollow cylinder with a periodic grating. <i>Ultrasonics</i> , 2019 , 93, 102-106	3.5	1
17	Precise micro-particle and bubble manipulation by tunable ultrasonic bottle beams. <i>Ultrasonics Sonochemistry</i> , 2021 , 75, 105602	8.9	1
16	Acoustic manipulation on microbubbles along arbitrary trajectories and adjustable destination. <i>Applied Physics Letters</i> , 2021 , 119, 093503	3.4	1
15	Coupled Focused Acoustic Vortices Generated by Degenerated Artificial Plates for Acoustic Coded Communication. <i>Advanced Materials Technologies</i> , 2200102	6.8	1
14	Low-Frequency Low-Reflection Bidirectional Sound Insulation Tunnel with Ultrathin Lossy Metasurfaces. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3470	2.6	1
13	An ultra-thin ventilated metasurface with extreme asymmetric absorption. <i>Applied Physics Letters</i> , 2022 , 120, 141701	3.4	1
12	Compact acoustic metamaterial based on the 3D Mie resonance of a maze ball with an octahedral structure. <i>Applied Physics Letters</i> , 2022 , 120, 161701	3.4	1
11	Modulation of Fano resonances in symmetry-broken gold-SiO ₂ -gold nanotube dimers. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 1063-1067	3.6	0

10	Quantitative bicomponent imaging with single-wavelength by using a transmission-mode photoacoustic microscope. <i>Applied Physics Letters</i> , 2022 , 120, 063701	3.4	○
9	Reversed Doppler effect based on hybridized acoustic Mie resonances. <i>Scientific Reports</i> , 2020 , 10, 15194	4.9	○
8	Subwavelength higher-order topological insulator based on stereo acoustic networks. <i>Journal of Applied Physics</i> , 2021 , 129, 135101	2.5	○
7	Tunable spatiotemporal resolution photoacoustic microscopy by combining quasi-periodic scanning and register-fusion algorithm. <i>Applied Physics Express</i> , 2022 , 15, 032004	2.4	○
6	Tunable Beam Splitter Based on Acoustic Binary Metagrating. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3758	2.6	○
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4	Observations of Tamm modes in acoustic topological insulators. <i>Applied Physics Letters</i> , 2022 , 120, 21170	1.4	○
3	Photoacoustic Tomography Reconstruction in a 2-D Chaotic Cavity using Time Reversal. <i>International Journal of Thermophysics</i> , 2013 , 34, 1646-1651	2.1	
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