

Xiao-Jun Liu

List of Publications by Year in descending order

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207
papers

4,978
citations

87843

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212
docs citations

212
times ranked

2640
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological Creation of Acoustic Pseudospin Multipoles in a Flow-Free Symmetry-Broken Metamaterial Lattice. <i>Physical Review Letters</i> , 2017, 118, 084303.	2.9	303
2	Directional Acoustic Antennas Based on Valleyâ€Hall Topological Insulators. <i>Advanced Materials</i> , 2018, 30, e1803229.	11.1	182
3	Non-Hermitian Sonic Second-Order Topological Insulator. <i>Physical Review Letters</i> , 2019, 122, 195501.	2.9	166
4	Topological Acoustic Delay Line. <i>Physical Review Applied</i> , 2018, 9, .	1.5	152
5	Programmable Coding Acoustic Topological Insulator. <i>Advanced Materials</i> , 2018, 30, e1805002.	11.1	150
6	Acoustic holography based on composite metasurface with decoupled modulation of phase and amplitude. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	134
7	Broadband manipulation of acoustic wavefronts by pentamode metasurface. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	124
8	Conversion of sound radiation pattern via gradient acoustic metasurface with space-coiling structure. <i>Applied Physics Express</i> , 2015, 8, 027301.	1.1	100
9	Deepâ€Subwavelength Holey Acoustic Secondâ€Order Topological Insulators. <i>Advanced Materials</i> , 2019, 31, e1904682.	11.1	99
10	Asymmetric absorber with multiband and broadband for low-frequency sound. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	98
11	Perfect absorption of low-frequency sound waves by critically coupled subwavelength resonant system. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	89
12	Broadband near-perfect absorption of low-frequency sound by subwavelength metasurface. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	87
13	Non-Hermitian topological whispering gallery. <i>Nature</i> , 2021, 597, 655-659.	13.7	87
14	Experimental verification of acoustic pseudospin multipoles in a symmetry-broken snowflakelike topological insulator. <i>Physical Review B</i> , 2017, 96, .	1.1	83
15	Experimental demonstration of topologically protected efficient sound propagation in an acoustic waveguide network. <i>Physical Review B</i> , 2017, 95, .	1.1	61
16	Photoacoustic tomography of tissue subwavelength microstructure with a narrowband and low frequency system. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	60
17	Multiband quasi-perfect low-frequency sound absorber based on double-channel Mie resonator. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	60
18	Acoustic subwavelength imaging of subsurface objects with acoustic resonant metalens. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	58

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19	Tunable Fano Resonances in Three-Layered Bimetallic Au and Ag Nanoshell. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23797-23801.	1.5	57
20	Targeted blue nanoparticles as photoacoustic contrast agent for brain tumor delineation. <i>Nano Research</i> , 2011, 4, 1163-1173.	5.8	55
21	Broadband Airy-like beams by coded acoustic metasurfaces. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	55
22	Precise rainbow trapping for low-frequency acoustic waves with micro Mie resonance-based structures. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	52
23	Realization of acoustic wave directivity at low frequencies with a subwavelength Mie resonant structure. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	51
24	Photoacoustic Spectrum Analysis for Microstructure Characterization in Biological Tissue: Analytical Model. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1473-1480.	0.7	48
25	Asymmetric acoustic transmission with a lossy gradient-index metasurface. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	48
26	Tunable and broadband asymmetric sound absorptions with coupling of acoustic bright and dark modes. <i>Journal of Sound and Vibration</i> , 2020, 479, 115371.	2.1	47
27	Tunable near-infrared optical properties of three-layered metal nanoshells. <i>Journal of Chemical Physics</i> , 2008, 129, 074711.	1.2	46
28	Acoustic planar hyperlens based on anisotropic density-near-zero metamaterials. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	46
29	Evaluation of bladder microvasculature with high-resolution photoacoustic imaging. <i>Optics Letters</i> , 2011, 36, 4815.	1.7	45
30	Acoustic topological insulator by honeycomb sonic crystals with direct and indirect band gaps. <i>New Journal of Physics</i> , 2018, 20, 093027.	1.2	45
31	Subwavelength multiple topological interface states in one-dimensional labyrinthine acoustic metamaterials. <i>Physical Review B</i> , 2019, 99, .	1.1	45
32	Controlling sound transmission with density-near-zero acoustic membrane network. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	43
33	Optimization of the bimetallic gold and silver alloy nanoshell for biomedical applications in vivo. <i>Applied Physics Letters</i> , 2010, 97, 061904.	1.5	42
34	Acoustic total transmission and total reflection in zero-index metamaterials with defects. <i>Applied Physics Letters</i> , 2013, 102, 174104.	1.5	42
35	Broadband acoustic focusing by Airy-like beams based on acoustic metasurfaces. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	42
36	Extraordinary acoustic transmission at low frequency by a tunable acoustic impedance metasurface based on coupled Mie resonators. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	39

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37	Influence of dielectric core, embedding medium and size on the optical properties of gold nanoshells. <i>Solid State Communications</i> , 2008, 146, 7-11.	0.9	38
38	Optical investigation on cadmium-doped zinc oxide nanoparticles synthesized by using a sonochemical method. <i>CrystEngComm</i> , 2012, 14, 240-245.	1.3	38
39	Quantitative detection of stochastic microstructure in turbid media by photoacoustic spectral matching. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	38
40	Pauli equation for a charged spin particle on a curved surface in an electric and magnetic field. <i>Physical Review A</i> , 2014, 90, .	1.0	38
41	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. <i>Scientific Reports</i> , 2016, 6, 16937.	1.6	37
42	Reconfigurable sound anomalous absorptions in transparent waveguide with modularized multi-order Helmholtz resonator. <i>Scientific Reports</i> , 2018, 8, 15678.	1.6	36
43	Acoustic logic gates and Boolean operation based on self-collimating acoustic beams. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	35
44	Acoustic holography using composite metasurfaces. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	34
45	Reconstruction of high quality photoacoustic tomography with a limited-view scanning. <i>Optics Express</i> , 2010, 18, 2760.	1.7	32
46	Generation of fractional acoustic vortex with a discrete Archimedean spiral structure plate. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	32
47	Acoustic analog computing system based on labyrinthine metasurfaces. <i>Scientific Reports</i> , 2018, 8, 10103.	1.6	32
48	Mathematical operations for acoustic signals based on layered labyrinthine metasurfaces. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	31
49	Noninvasive Assessment of Early Dental Lesion Using a Dual-Contrast Photoacoustic Tomography. <i>Scientific Reports</i> , 2016, 6, 21798.	1.6	30
50	Low-frequency perfect sound absorption achieved by a modulus-near-zero metamaterial. <i>Scientific Reports</i> , 2019, 9, 13482.	1.6	30
51	Simulation of the formation and characteristics of ultrasonic fountain. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 241-246.	3.8	29
52	Strong Plasmon-Exciton-Plasmon Multimode Couplings in Three-Layered Ag-J-Aggregates Nanostructures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25455-25462.	1.5	28
53	Acoustic analog computing based on a reflective metasurface with decoupled modulation of phase and amplitude. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	28
54	Metasurface-enabled airborne fractional acoustic vortex emitter. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	28

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55	Studies of two-solar-mass hybrid stars within the framework of Dyson-Schwinger equations. <i>Physical Review D</i> , 2015, 92, .	1.6	27
56	Statistical behavior of electrical breakdown in insulating polymers. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	26
57	Continuum study of the QCD phase diagram through an OPE-modified gluon propagator. <i>Physical Review D</i> , 2016, 93, .	1.6	26
58	Subwavelength broadband sound absorber based on a composite metasurface. <i>Scientific Reports</i> , 2020, 10, 13823.	1.6	26
59	Ultrathin Composite Metasurface for Absorbing Subkilohertz Low-Frequency Underwater Sound. <i>Physical Review Applied</i> , 2021, 16, .	1.5	26
60	Quantitative imaging of microvasculature in deep tissue with a spectrum-based photo-acoustic microscopy. <i>Optics Letters</i> , 2015, 40, 970.	1.7	25
61	Acoustic metamaterial antennas for combined highly directive-sensitive detection. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	25
62	Acoustic accelerating beam based on a curved metasurface. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	25
63	Compact transformable acoustic logic gates for broadband complex Boolean operations based on density-near-zero metamaterials. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	24
64	Pseudospin induced topological corner state at intersecting sonic lattices. <i>Physical Review B</i> , 2020, 101, .	1.1	24
65	Subwavelength Acoustic Valley-Hall Topological Insulators Using Soda Cans Honeycomb Lattices. <i>Research</i> , 2019, 2019, 5385763.	2.8	24
66	Topological refraction in dual-band valley sonic crystals. <i>Physical Review B</i> , 2021, 103, .	1.1	23
67	High absorption asymmetry enabled by a deep-subwavelength ventilated sound absorber. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	23
68	Metasurface absorber for ultra-broadband sound via over-damped modes coupling. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	23
69	A flat acoustic lens to generate a Bessel-like beam. <i>Ultrasonics</i> , 2017, 80, 66-71.	2.1	22
70	Tunable perfect negative reflection based on an acoustic coding metasurface. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	22
71	Fano-Like Resonances in Asymmetric Homodimer of Gold Elliptical Nanowires. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13745-13748.	1.5	21
72	Dynamical chiral symmetry breaking in the NJL model with a constant external magnetic field. <i>Physical Review D</i> , 2015, 91, .	1.6	21

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73	Dynamic generation and modulation of acoustic bottle-beams by metasurfaces. <i>Scientific Reports</i> , 2018, 8, 12682.	1.6	21
74	Dual-Band Fano Resonance of Low-Frequency Sound Based on Artificial Mie Resonances. <i>Advanced Science</i> , 2019, 6, 1901307.	5.6	21
75	Emitting long-distance spiral airborne sound using low-profile planar acoustic antenna. <i>Nature Communications</i> , 2021, 12, 2006.	5.8	21
76	Negative refraction induced acoustic concentrator and the effects of scattering cancellation, imaging, and mirage. <i>Physical Review B</i> , 2012, 86, .	1.1	19
77	Tunable directional subwavelength acoustic antenna based on Mie resonance. <i>Scientific Reports</i> , 2018, 8, 10049.	1.6	19
78	Multi-bottle beam generation using acoustic holographic lens. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	19
79	Particle Trapping in Arbitrary Trajectories Using First-Order Bessel-Like Acoustic Beams. <i>Physical Review Applied</i> , 2021, 15, .	1.5	19
80	Remote whispering metamaterial for non-radiative transceiving of ultra-weak sound. <i>Nature Communications</i> , 2021, 12, 3670.	5.8	19
81	A tunable acoustic filter made by periodical structured materials. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	18
82	Specific multiple-scattering process in acoustic cloak with multilayered homogeneous isotropic materials. <i>Journal of Applied Physics</i> , 2008, 104, 104911.	1.1	17
83	Modulation of acoustic waves by a broadband metagrating. <i>Scientific Reports</i> , 2019, 9, 7271.	1.6	17
84	Broadband integrative acoustic asymmetric focusing lens based on mode-conversion meta-atoms. <i>Applied Physics Letters</i> , 2020, 116, 223505.	1.5	17
85	Asymmetric coding metasurfaces for the controllable projection of acoustic images. <i>Physical Review Materials</i> , 2019, 3, .	0.9	17
86	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.	1.1	16
87	Enhanced directional acoustic emission based on anisotropic metamaterials. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	16
88	Aperiodic Metagratings for High-Performance Multifunctional Acoustic Lenses. <i>Advanced Materials Technologies</i> , 2020, 5, 2000542.	3.0	16
89	Wide-angle asymmetric acoustic absorber based on one-dimensional lossy Bragg stacks. <i>Journal of the Acoustical Society of America</i> , 2017, 142, EL69-EL74.	0.5	15
90	Photoacoustic eigen-spectrum from light-absorbing microspheres and its application in noncontact elasticity evaluation. <i>Applied Physics Letters</i> , 2017, 110, 054101.	1.5	15

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91	Reflected acoustic wavefront manipulation by an ultrathin metasurface based on three-dimensional generalized Snell's law. <i>Applied Physics Express</i> , 2019, 12, 094001.	1.1	14
92	Tunable photoacoustic properties of gold nanoshells with near-infrared optical responses. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	13
93	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.	1.7	13
94	In Vivo Imaging of Microvasculature during Anesthesia with High-Resolution Photoacoustic Microscopy. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 1110-1118.	0.7	13
95	Acoustic hook beam lens for particle trapping. <i>Applied Physics Express</i> , 2020, 13, 064003.	1.1	13
96	Experimental demonstration of a reconfigurable acoustic second-order topological insulator using condensed soda cans array. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	13
97	Low-Frequency, Open, Sound-Insulation Barrier by Two Oppositely Oriented Helmholtz Resonators. <i>Micromachines</i> , 2021, 12, 1544.	1.4	13
98	Influences of the geometry and acoustic parameter on acoustic radiation forces on three-layered nucleate cells. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	12
99	Broadband acoustic logic gates in a circular waveguide with multiple ports. <i>Applied Physics Letters</i> , 2017, 111, 243501.	1.5	12
100	Achieving acoustic topological valley-Hall states by modulating the subwavelength honeycomb lattice. <i>Scientific Reports</i> , 2018, 8, 16784.	1.6	12
101	Acoustic tweezing for both Rayleigh and Mie particles based on acoustic focused petal beams. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	12
102	Orbital Angular Momentum Multiplexing in Space-Time Thermoacoustic Metasurfaces. <i>Advanced Materials</i> , 2022, 34, .	11.1	12
103	Study of lanthanide doped zinc oxide nanoparticles synthesized via a sonochemical method. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 1280-1284.	2.0	11
104	Asymmetric phase modulation of acoustic waves through unidirectional metasurfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	11
105	Binary-phase acoustic passive logic gates. <i>Scientific Reports</i> , 2019, 9, 8355.	1.6	11
106	Pseudospin-dependent acoustic topological insulator by airborne sonic crystals with a triangular lattice. <i>Applied Physics Express</i> , 2019, 12, 044003.	1.1	11
107	High efficiency acoustic Fresnel lens. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 065302.	1.3	11
108	Ultra-sparse metamaterials absorber for broadband low-frequency sound with free ventilation. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 1044-1056.	0.5	11

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109	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.	1.5	11
110	Photoacoustic tomography extracted from speckle noise in acoustically inhomogeneous tissue. <i>Optics Express</i> , 2013, 21, 18061.	1.7	10
111	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.	1.5	10
112	Manipulation of acoustic transmission by zero-index metamaterial with rectangular defect. <i>Journal of Applied Physics</i> , 2017, 122, 215103.	1.1	10
113	Ultrathin acoustic cloaking by a conformal hybrid metasurface. <i>Scientific Reports</i> , 2019, 9, 12700.	1.6	10
114	Enhanced Fractional Acoustic Vortices by an Annulus Acoustic Metasurface with Multi-Layered Rings. <i>Advanced Materials Technologies</i> , 2020, 5, 2000356.	3.0	10
115	Broadband acoustic vortex beam generator based on coupled resonances. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	10
116	An ultra-thin ventilated metasurface with extreme asymmetric absorption. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	10
117	Multifunctional Asymmetric Sound Manipulations by a Passive Phased Array Prism. <i>Physical Review Applied</i> , 2019, 12, .	1.5	9
118	Observation of Ultrabroadband Acoustic Focusing Based on V-Shaped Meta-Atoms. <i>Advanced Materials Technologies</i> , 2020, 5, 1900956.	3.0	9
119	Enhanced Low-Frequency Monopole and Dipole Acoustic Antennas Based on a Subwavelength Bianisotropic Structure. <i>Advanced Materials Technologies</i> , 2020, 5, 1900970.	3.0	9
120	Acoustic trapping of particles using a Chinese taiji lens. <i>Ultrasonics</i> , 2021, 110, 106262.	2.1	9
121	Multiband asymmetric sound absorber enabled by ultrasparse Mie resonators. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 2072-2080.	0.5	9
122	Artifact-free imaging through a bone-like layer by using an ultrasonic-guided photoacoustic microscopy. <i>Optics Letters</i> , 2019, 44, 1273.	1.7	9
123	Multifunctional reflected lenses based on aperiodic acoustic metagratings. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	9
124	Coupled resonant modes in twisted acoustic metamaterials. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 805-811.	1.1	8
125	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.	1.1	8
126	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.	1.5	8

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127	Manipulating Backward Propagation of Acoustic Waves by a Periodical Structure. Chinese Physics Letters, 2016, 33, 114302.	1.3	8
128	Dynamic focusing of acoustic wave utilizing a randomly scattering lens and a single fixed transducer. Journal of Applied Physics, 2017, 121, 174901.	1.1	8
129	Broadband and flexible acoustic focusing by metafiber bundles. Journal Physics D: Applied Physics, 2018, 51, 245102.	1.3	8
130	Negative acoustic radiation force induced on an elastic sphere by laser irradiation. Physical Review E, 2018, 98, .	0.8	8
131	Acoustic spin Hall-like effect in hyperbolic metamaterials controlled by the helical wave. Scientific Reports, 2018, 8, 11113.	1.6	8
132	High-Sensitivity Optical-Resolution Photoacoustic Microscopy with an Optical-Acoustic Combiner Based on an Off-Axis Parabolic Acoustic Mirror. Photonics, 2021, 8, 127.	0.9	8
133	Precise micro-particle and bubble manipulation by tunable ultrasonic bottle beams. Ultrasonics Sonochemistry, 2021, 75, 105602.	3.8	8
134	Sound focusing by a broadband acoustic Luneburg lens. Journal of the Acoustical Society of America, 2022, 151, 2238-2244.	0.5	8
135	The second-harmonic generation of a conical sound source. Journal of the Acoustical Society of America, 1998, 104, 2645-2653.	0.5	7
136	Acoustic interference lens for trapping micro-scale particles. Journal Physics D: Applied Physics, 2019, 52, 455302.	1.3	7
137	Acoustic radiation forces on three-layered drug particles in focused Gaussian beams. Journal of the Acoustical Society of America, 2019, 145, 1331-1340.	0.5	7
138	Low-artifact and long depth of field photoacoustic microscopy using a Gaussian-weighted annular array. Applied Physics Express, 2019, 12, 057001.	1.1	7
139	Broadband acoustic converging and asymmetric converging based on thermoacoustic phased arrays. Journal of Applied Physics, 2019, 125, .	1.1	7
140	Demultiplexing sound in stacked valley-Hall topological insulators. Physical Review B, 2021, 104, .	1.1	7
141	Unidirectional acoustic transmission in asymmetric bull's eye structure. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1-5.	2.0	6
142	Modulation of acoustic radiation forces on three-layered nucleate cells in a focused Gaussian beam. Europhysics Letters, 2018, 124, 24004.	0.7	6
143	Modulating acoustic Fano resonance of self-collimated sound beams in two dimensional sonic crystals. Ultrasonics, 2019, 91, 129-133.	2.1	6
144	Multiple information extracted from photoacoustic radio-frequency signal and the application on tissue classification. Ultrasonics Sonochemistry, 2020, 66, 105095.	3.8	6

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145	Reversed Doppler effect based on hybridized acoustic Mie resonances. <i>Scientific Reports</i> , 2020, 10, 1519.	1.6	6
146	Engineering negative coupling and corner modes in a three-dimensional acoustic topological network. <i>Physical Review B</i> , 2022, 105, .	1.1	6
147	Effects of poroelastic coefficients on normal vibration modes in vocal-fold tissues. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 934-943.	0.5	5
148	Modulation of anisotropic middle layer on the plasmon couplings in sandwiched gold nanoshells. <i>Gold Bulletin</i> , 2012, 45, 197-201.	1.1	5
149	Reflection-mode optical-resolution photoacoustic microscopy with high detection sensitivity by using a perforated acoustic mirror. <i>Applied Physics Letters</i> , 2018, 113, 183706.	1.5	5
150	Laser irradiation modulating the acoustic radiation force acting on a liquid ball in a plane progressive wave. <i>AIP Advances</i> , 2019, 9, .	0.6	5
151	Acoustic energy harvesting for low-frequency airborne sound based on compound Mie resonances. <i>Applied Physics Express</i> , 2019, 12, 044002.	1.1	5
152	Acoustic manipulation on microbubbles along arbitrary trajectories and adjustable destination. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	5
153	Ultra-Thin Metasurface-Based Absorber of Low-Frequency Sound With Bandwidth Optimization. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	5
154	Photoacoustic ultrasonic dual-mode microscopy with local speed-of-sound estimation. <i>Optics Letters</i> , 2020, 45, 3840.	1.7	5
155	Asymmetric acoustic retroreflection with a non-Hermitian metasurface mirror. <i>Applied Physics Express</i> , 2021, 14, 124001.	1.1	5
156	Coupled Focused Acoustic Vortices Generated by Degenerated Artificial Plates for Acoustic Coded Communication. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	5
157	Improved digital breast tomosynthesis images using automated ultrasound. <i>Medical Physics</i> , 2014, 41, 061911.	1.6	4
158	Noncommutative field with constant background fields and neutral fermions. <i>Physical Review D</i> , 2015, 91, .	1.6	4
159	Perfect monochromatic acoustic anti-reflection: A first-principles study. <i>Journal of Applied Physics</i> , 2017, 121, 094504.	1.1	4
160	Photoacoustic imaging in scattering media by combining a correlation matrix filter with a time reversal operator. <i>Optics Express</i> , 2017, 25, 22840.	1.7	4
161	Imaging acoustic sources through scattering media by using a correlation full-matrix filter. <i>Scientific Reports</i> , 2018, 8, 15611.	1.6	4
162	Noninvasive low-cycle fatigue characterization at high depth with photoacoustic eigen-spectrum analysis. <i>Scientific Reports</i> , 2018, 8, 7751.	1.6	4

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163	High-efficiency anomalous reflection of acoustic waves with a passive-lossless metasurface. Applied Physics Express, 2019, 12, 047003.	1.1	4
164	Acoustic logic gates by a curved waveguide with ultrathin metasurfaces. Journal Physics D: Applied Physics, 2020, 53, 015301.	1.3	4
165	Noncontact evaluation of full elastic constants of perovskite MAPbBr ₃ via Photoacoustic eigen-spectrum analysis in one test. Scientific Reports, 2020, 10, 9994.	1.6	4
166	Generation of diverse acoustic vortices by superimposed multipole emissions. Physical Review B, 2021, 103, .	1.1	4
167	Simultaneous scattering-absorption dual-modal cell imaging in a single shot by a transmission-mode photoacoustic microscope. Optics Letters, 2020, 45, 5832.	1.7	4
168	Acoustic Bessel Vortex Beam by Quasi-Three-Dimensional Reflected Metasurfaces. Micromachines, 2021, 12, 1388.	1.4	4
169	Glided acoustic higher-order topological insulators based on spoof surface acoustic waves. New Journal of Physics, 0, , .	1.2	4
170	Observations of Tamm modes in acoustic topological insulators. Applied Physics Letters, 2022, 120, .	1.5	4
171	Comment on "The second harmonic component in the Bessel beam" [Appl. Phys. Lett. 68, 608 (1996)]. Applied Physics Letters, 1997, 71, 722-722.	1.5	3
172	Chiral phase transition in QED at finite temperature and impurity potential. Physical Review D, 2016, 93, .		
173	Reconstruction of Photoacoustic Tomography Inside a Scattering Layer Using a Matrix Filtering Method. Applied Sciences (Switzerland), 2019, 9, 2071.	1.3	3
174	An extremely anisotropic phononic crystal with open elliptical dispersion for energy convergence and beam squeezing. Applied Physics Letters, 2020, 117, .	1.5	3
175	Zak-phase-inspired acoustic topological edge states on the honeycomb lattice. Physical Review B, 2021, 103, .	1.1	3
176	Subwavelength higher-order topological insulator based on stereo acoustic networks. Journal of Applied Physics, 2021, 129, 135101.	1.1	3
177	Tunable spatiotemporal resolution photoacoustic microscopy by combining quasi-periodic scanning and register-fusion algorithm. Applied Physics Express, 2022, 15, 032004.	1.1	3
178	Three-Dimensional Trapping and Manipulation of a Mie Particle by Hybrid Acoustic Focused Petal Beams. Physical Review Applied, 2022, 17, .	1.5	3
179	Design of LEAF control system. Radiation Detection Technology and Methods, 2019, 3, 1.	0.4	2
180	Enhancement of photoacoustic microscopy by using a non-negative constrained pulse decomposition method. Applied Physics Express, 2020, 13, 017005.	1.1	2

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