Manzhu Ke

List of Publications by Year
in descending order

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Version: 2024-02-01

89 papers	4,757 citations	94433 37 h-index	95266 68 g-index
92 all docs	92 docs citations	92 times ranked	2218 citing authors

#	Article	IF	Citations
1	Observation of topological valley transport of sound in sonic crystals. Nature Physics, 2017, 13, 369-374.	16.7	666
2	Valley Vortex States in Sonic Crystals. Physical Review Letters, 2016, 116, 093901.	7.8	336
3	Topological negative refraction of surface acoustic waves in a Weyl phononic crystal. Nature, 2018, 560, 61-64.	27.8	330
4	Anomalous refraction of airborne sound through ultrathin metasurfaces. Scientific Reports, 2014, 4, 6517.	3.3	299
5	Acoustic Realization of Quadrupole Topological Insulators. Physical Review Letters, 2020, 124, 206601.	7.8	160
6	Dirac cones in two-dimensional artificial crystals for classical waves. Physical Review B, 2014, 89, .	3.2	153
7	Tuning Fabry-Perot resonances via diffraction evanescent waves. Physical Review B, 2007, 76, .	3.2	150
8	Negative-refraction imaging with two-dimensional phononic crystals. Physical Review B, 2005, 72, .	3.2	146
9	Two-dimensional phononic crystal sensor based on a cavity mode. Sensors and Actuators B: Chemical, 2012, 171-172, 271-277.	7.8	122
10	Observation of acoustic valley vortex states and valley-chirality locked beam splitting. Physical Review B, 2017, 95, .	3.2	106
11	Acoustic far-field focusing effect for two-dimensional graded negative refractive-index sonic crystals. Applied Physics Letters, 2010, 96, .	3.3	100
12	Making sound vortices by metasurfaces. AIP Advances, 2016, 6, .	1.3	99
13	Particle manipulation with acoustic vortex beam induced by a brass plate with spiral shape structure. Applied Physics Letters, 2016, 109, .	3.3	94
14	Asymmetric acoustic gratings. Applied Physics Letters, 2011, 98, .	3.3	90
15	Acoustic Landau quantization and quantum-Hall-like edge states. Nature Physics, 2019, 15, 352-356.	16.7	84
16	Valley-locked waveguide transport in acoustic heterostructures. Nature Communications, 2020, 11, 3000.	12.8	84
17	Sub-wavelength phononic crystal liquid sensor. Journal of Applied Physics, 2011, 110, .	2.5	82
18	Acoustic Transmission Enhancement through a Periodically Structured Stiff Plate without Any Opening. Physical Review Letters, 2010, 105, 074301.	7.8	81

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19	Subwavelength imaging by a simple planar acoustic superlens. Applied Physics Letters, 2010, 97, .	3.3	81
20	The layer multiple-scattering method for calculating transmission coefficients of 2D phononic crystals. Solid State Communications, 2005, 134, 765-770.	1.9	59
21	Focusing and directional beaming effects of airborne sound through a planar lens with zigzag slits. Journal of Applied Physics, 2015, 117, .	2.5	58
22	Acoustic wave transmission through a bullâ€™s eye structure. Applied Physics Letters, 2008, 92, .	3.3	54
23	Acoustic analog of electromagnetically induced transparency in periodic arrays of square rods. Physical Review E, 2010, 82, 026601.	2.1	52
24	Observation of quadratic Weyl points and double-helicoid arcs. Nature Communications, 2020, 11, 1820.	12.8	50
25	Unidirectional transmission of acoustic waves based on asymmetric excitation of Lamb waves. Applied Physics Letters, 2013, 102, .	3.3	49
26	Probing Weyl Physics with One-Dimensional Sonic Crystals. Physical Review Letters, 2019, 122, 136802.	7.8	48
27	Nonleaky surface acoustic waves on a textured rigid surface. Physical Review B, 2011, 83, .	3.2	47
28	Experimental determination for resonance-induced transmission of acoustic waves through subwavelength hole arrays. Journal of Applied Physics, 2008, 104, .	2.5	44
29	Focusing of spoof surface-acoustic-waves by a gradient-index structure. Journal of Applied Physics, 2013, 114, .	2.5	44
30	Acoustic Dirac degeneracy and topological phase transitions realized by rotating scatterers. Journal of Applied Physics, 2018, 123, .	2.5	41
31	Topological dislocation modes in three-dimensional acoustic topological insulators. Nature Communications, 2022, 13, 508.	12.8	40
32	Flat superlens by using negative refraction in two-dimensional phononic crystals. Solid State Communications, 2007, 142, 177-180.	1.9	39
33	Highly directional acoustic wave radiation based on asymmetrical two-dimensional phononic crystal resonant cavity. Applied Physics Letters, 2006, 88, 263505.	3.3	38
34	Surface acoustic waves in two-dimensional phononic crystals: Dispersion relation and the eigenfield distribution of surface modes. Physical Review B, 2007, 76, .	3.2	38
35	Symmetry-enforced three-dimensional Dirac phononic crystals. Light: Science and Applications, 2020, 9, 38.	16.6	38
36	Broadband asymmetric acoustic transmission by a plate with quasi-periodic surface ridges. Applied Physics Letters, 2014, 105, .	3.3	37

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37	Valley-projected edge modes observed in underwater sonic crystals. Applied Physics Letters, 2019, 114, .	3.3	37
38	Liquid sensor utilizing a regular phononic crystal with normal incidence of sound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 463-471.	3.0	36
39	Experimental demonstration of directional acoustic radiation based on two-dimensional phononic crystal band edge states. Applied Physics Letters, 2007, 90, 083509.	3.3	35
40	Rotational manipulation by acoustic radiation torque of high-order vortex beams generated by an artificial structured plate. Applied Physics Letters, 2018, 113, .	3.3	35
41	Acoustic Bloch oscillations in a two-dimensional phononic crystal. Physical Review E, 2007, 76, 056605.	2.1	33
42	Parallel acoustic near-field microscope: A steel slab with a periodic array of slits. Physical Review E, 2009, 80, 026603.	2.1	32
43	Transmission enhancement of acoustic waves through a thin hard plate embedded with elastic inclusions. Applied Physics Letters, 2012, 101, .	3.3	31
44	Surface Resonant-States-Enhanced Acoustic Wave Tunneling in Two-Dimensional Phononic Crystals. Physical Review Letters, 2007, 99, 044301.	7.8	29
45	Dexterous acoustic trapping and patterning of particles assisted by phononic crystal plate. Applied Physics Letters, 2015, 106, .	3.3	29
46	Acoustic collimating beams by negative refraction in two-dimensional phononic crystal. Journal of Applied Physics, 2009, 105, .	2.5	24
47	Acoustically induced strong interaction between two periodically patterned elastic plates. Physical Review B, 2014, 90, .	3.2	23
48	Experimental Observation of Non-Abelian Earring Nodal Links in Phononic Crystals. Physical Review Letters, 2022, 128, .	7.8	22
49	Exotic acoustic transmission through hard plates perforated with quasiperiodic subwavelength apertures. Europhysics Letters, 2010, 92, 24006.	2.0	20
50	Extraordinary acoustic reflection enhancement by acoustically transparent thin plates. Applied Physics Letters, 2012, 100, .	3.3	20
51	Directional excitation of the designer surface acoustic waves. Applied Physics Letters, 2015, 106, .	3.3	18
52	Straight nodal lines and waterslide surface states observed in acoustic metacrystals. Physical Review B, 2019, 100, .	3.2	18
53	Theoretical Study of Large-Angle Bending Transport of Microparticles by 2D Acoustic Half-Bessel Beams. Scientific Reports, 2015, 5, 13063.	3.3	17
54	Extraordinary acoustic shielding by a monolayer of periodical polymethyl methacrylate cylinders immersed in water. Journal of Applied Physics, 2011, 110, .	2.5	16

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55	Acoustic manipulating of capsule-shaped particle assisted by phononic crystal plate. Applied Physics Letters, 2018, 112, .	3.3	16
56	Strongly localized acoustic surface waves propagating along a V-groove. Applied Physics Letters, 2009, 94, 023505.	3.3	15
57	Acoustically driven particle delivery assisted by a graded grating plate. Applied Physics Letters, 2017, 111, 031903.	3.3	15
58	Tunable enhancement of the acoustic radiation pressure acting on a rigid wall via attaching a metamaterial slab. Europhysics Letters, 2014, 105, 64004.	2.0	14
59	Acoustic waves splitter employing orbital angular momentum. Applied Physics Letters, 2019, 114, .	3.3	14
60	Experimental demonstration of surface acoustic waves in two-dimensional phononic crystals with fluid background. Journal of Applied Physics, 2009, 106, 044512.	2.5	13
61	Rigorous Analytical Model for Multipole Emission Enhancement Using Acoustic Metamaterials. Physical Review Applied, 2018, 10, .	3.8	13
62	Experimental investigation of negative refraction and imaging of 8-fold-symmetry phononic quasicrystals. Solid State Communications, 2009, 149, 667-669.	1.9	12
63	Making acoustic half-Bessel beams with metasurfaces. Japanese Journal of Applied Physics, 2016, 55, 110302.	1.5	10
64	Guiding spoof surface acoustic waves on a monolayer array of rigid cylinders in water. Journal Physics D: Applied Physics, 2016, 49, 125304.	2.8	10
65	Superscattering of Sound by a Deep-Subwavelength Solid Mazelike Rod. Physical Review Applied, 2019, 12, .	3.8	10
66	Phononic crystal sensor for liquid property determination. , 2012, , .		9
67	Sound-mediated stable configurations for polystyrene particles. Physical Review E, 2017, 96, 052604.	2.1	9
68	Transversal Anderson localization of sound in acoustic waveguide arrays. Journal of Physics Condensed Matter, 2015, 27, 155402.	1.8	8
69	Highly efficient isolation of waterborne sound by an air-sealed meta-screen. AIP Advances, 2017, 7, .	1.3	8
70	Highly asymmetric interaction forces induced by acoustic waves in coupled plate structures. Journal of Applied Physics, 2015, 118, .	2.5	7
71	Acoustically mediated long-range interaction among multiple spherical particles exposed to a plane standing wave. New Journal of Physics, 2016, 18, 113034.	2.9	7
72	Planar Ultrasonic Lenses Formed by Concentric Circular Sandwichedâ€Ring Arrays. Advanced Materials Technologies, 2018, 4, 1800542.	5.8	7

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73	Acoustic surface-guided modes in phononic crystals. Europhysics Letters, 2013, 104, 34005.	2.0	6
74	Extraordinary lateral beaming of sound from a square-lattice phononic crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 886-889.	2.1	5
75	Realization of acoustic omnidirectional radiation with annular anisotropic zero-density metamaterial. Applied Physics Letters, 2019, 114, .	3.3	5
76	Acoustic Subwavelength Manipulation of Particles with a Quasiperiodic Plate. Physical Review Applied, 2022, 17, .	3.8	5
77	Experimental investigation of shell modes in two-dimensional phononic crystal consisting of hollow cylinders. Journal of Applied Physics, 2010, 107, 064503.	2.5	4
78	Acoustic lens: A thin plate with quasi-periodic array of holes. Solid State Communications, 2014, 185, 35-40.	1.9	4
79	Metafluids beyond the Bulk Modulus. Physical Review Letters, 2020, 125, 185502.	7.8	4
80	Acoustic Tamm states in double 1D phononic crystals. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 374-376.	1.0	3
81	Realizing robust overlapped effect of multiple sound sources via anisotropic zero density metamaterials. Physical Review B, 2018, 98, .	3.2	3
82	Zener tunneling of acoustic waves in a one-dimensional phononic crystal. Solid State Communications, 2007, 144, 433-436.	1.9	2
83	Acoustic Zitterbewegung in ordinary sonic crystals: A general classical description. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4933-4936.	2.1	2
84	Low frequency dispersion law for two-dimensional metallic photonic crystals. Wuhan University Journal of Natural Sciences, 2008, 13, 50-54.	0.4	1
85	Liquid sensor utilizing a regular phononic crystal with normal incidence of sound. , 2011, , .		1
86	Subwavelength image manipulation through oblique and herringbone layered acoustic systems. Journal Physics D: Applied Physics, 2014, 47, 135102.	2.8	1
87	Highly efficient blazed gratings based on gradient-comb-like units. Journal of Applied Physics, 2015, 118, 083106.	2.5	0
88	Focusing of ultrasonic waves in water with a flat artificial composite plate. , 2017, , .		0
89	Focusing of ultrasonic waves in water with a flat artificial composite plate. , 2017, , .		0