

Tianning Chen

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,083
citations

623734

14
h-index

434195

31
g-index

53
all docs

53
docs citations

53
times ranked

1016
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanometer-precision linear sorting with synchronized optofluidic dual barriers. <i>Science Advances</i> , 2018, 4, eaao0773.	10.3	161
2	Hybrid acoustic metamaterial as super absorber for broadband low-frequency sound. <i>Scientific Reports</i> , 2017, 7, 43340.	3.3	152
3	Simulation and Characterization of Particle Damping in Transient Vibrations. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2004, 126, 202-211.	1.6	93
4	Plate-type elastic metamaterials for low-frequency broadband elastic wave attenuation. <i>Ultrasonics</i> , 2017, 73, 34-42.	3.9	77
5	An Experimental Study of Particle Damping for Beams and Plates. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2004, 126, 141-148.	1.6	58
6	Elastic Waves in Curved Space: Mimicking a Wormhole. <i>Physical Review Letters</i> , 2018, 121, 234301.	7.8	54
7	Experimental Demonstration of a 3D-Printed Arched Metasurface Carpet Cloak. <i>Advanced Optical Materials</i> , 2019, 7, 1900475.	7.3	40
8	Propagation of Lamb waves in one-dimensional radial phononic crystal plates with periodic corrugations. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	31
9	Acoustic confinement and waveguiding in two-dimensional phononic crystals with material defect states. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	31
10	Band structures of bilayer radial phononic crystal plate with crystal gliding. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	30
11	Asymmetric Absorption in Acoustic Metamirror Based on Surface Impedance Engineering. <i>Physical Review Applied</i> , 2019, 12, .	3.8	28
12	Broadband high-index prism for asymmetric acoustic transmission. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	21
13	Low-frequency sound-absorbing metasurface with a channel of nonuniform cross section. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	20
14	A 3D Carpet Cloak with Non-Euclidean Metasurfaces. <i>Advanced Optical Materials</i> , 2020, 8, 2000827.	7.3	19
15	3D Manipulation of Magnetic Liquid Metals. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900170.	6.1	17
16	Forming Low-Frequency Complete Vibration Bandgaps in a thin Nonmetallic Elastic Metamaterial Plate. <i>Acoustical Physics</i> , 2019, 65, 322-333.	1.0	14
17	Research on the sound absorption characteristics of porous metal materials at high sound pressure levels. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401557542.	1.6	13
18	Motion mode of the optimal damping particle in particle dampers. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 1527-1531.	1.5	13

#	ARTICLE	IF	CITATIONS
19	A high-efficient tunable liquid metal-based electromagnetic absorbing metamaterial. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19242-19247.	2.2	13
20	Manipulation of seismic Rayleigh waves using a phase-gradient rubber metasurface. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050142.	2.0	11
21	Lamb waves in two-dimensional phononic crystal slabs with neck structures. <i>Journal of Applied Physics</i> , 2013, 113, 214908.	2.5	10
22	Design of a broadband ultra-large area acoustic cloak based on a fluid medium. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	10
23	Fractal contact spot and its application in the contact model of isotropic surfaces. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	10
24	Ultra-Broadband Acoustic Diode in Open Bend Tunnel by Negative Reflective Metasurface. <i>Scientific Reports</i> , 2018, 8, 16089.	3.3	10
25	A novel metal-matrix phononic crystal with a low-frequency, broad and complete, locally-resonant band gap. <i>Modern Physics Letters B</i> , 2018, 32, 1850221.	1.9	10
26	Switchable directional sound emission with improved field confinement based on topological insulators. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	10
27	Deep-subwavelength broadband sound absorbing metasurface based on the update finger coiling-up method. <i>Applied Acoustics</i> , 2022, 195, 108846.	3.3	10
28	Acoustic invisibility cloaks of arbitrary shapes for complex background media. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	9
29	A 3D-printed adaptive cloaking“illusion-integrated metasurface. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16018-16023.	5.5	9
30	Lamb waves propagation in a novel metal-matrix phononic crystals plate. <i>Modern Physics Letters B</i> , 2016, 30, 1650338.	1.9	8
31	Plate-type metamaterials for extremely broadband low-frequency sound insulation. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850019.	2.0	8
32	Evidence for complete low-frequency vibration band gaps in a thick elastic steel metamaterial plate. <i>Modern Physics Letters B</i> , 2019, 33, 1950038.	1.9	8
33	Tunable broadband unidirectional acoustic transmission based on a waveguide with phononic crystal. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	7
34	Modulating lamb wave band gaps using an elastic metamaterial plate. <i>Acoustical Physics</i> , 2017, 63, 508-516.	1.0	6
35	Highly Efficient Low-Frequency Broadband Sound Absorption with a Composite Hybrid Metasurface. <i>Advanced Engineering Materials</i> , 2021, 23, 2100791.	3.5	6
36	Numerical modeling of a novel degradable drug delivery system with microholes. <i>Microsystem Technologies</i> , 2011, 17, 387-394.	2.0	5

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37	Design and analysis of the trapeziform and flat acoustic cloaks with controllable invisibility performance in a quasi-space. <i>AIP Advances</i> , 2015, 5, .	1.3	5
38	An adaptive grinding method for precision-cast blades with geometric deviation. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 2349-2365.	3.0	5
39	Frequency band-selected one-way topological edge mode via acoustic metamaterials and metasurface. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	5
40	A Novel of Biodegradable Implants Based on PLGA for Control Delivery of Cisplatin. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 368-373.	3.4	4
41	Theoretical and numerical investigation on impact noise radiated by collision of two cylinders. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 2017-2024.	1.5	4
42	A Qualitative Approach for the Elderly's Needs in Service Robots Design. , 2018, , .		4
43	A dynamical tool adjustment method for computer numerical control abrasive belt grinding. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401984627.	1.6	4
44	Multi-mass synergetic coupling perforated bi-layer plate-type acoustic metamaterials for sound insulation. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050136.	2.0	4
45	Highly Efficient Low-Frequency Broadband Sound Absorption with a Composite Hybrid Metasurface. <i>Advanced Engineering Materials</i> , 2021, 23, 2170041.	3.5	4
46	Numerical Upscaling of Seismic Signatures of Poroelastic Rocks Containing Mesoscopic Fluid-Saturated Voids. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	4
47	Valley Vortex Assisted and Topological Protected Microparticles Manipulation with Complicated 2D Patterns in a Star-like Sonic Crystal. <i>Materials</i> , 2021, 14, 4939.	2.9	3
48	Experiment Research on Bonding Effect of Poly(lactic-co-glycolic acid) Device by Surface Treatment Method. <i>International Journal of Polymer Science</i> , 2015, 2015, 1-7.	2.7	2
49	Lamb wave band gaps in one-dimensional radial phononic crystal slabs. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550002.	2.0	1
50	Parametric Excitation of Optomechanical Resonators by Periodical Modulation. <i>Micromachines</i> , 2018, 9, 193.	2.9	1
51	Study on Damping Behavior of Electromagnetic Particle Dampers with a Ferromagnetic End Cover in Weightless Environments. <i>Microgravity Science and Technology</i> , 2022, 34, 1.	1.4	1
52	A 3D-Printed Lightweight and Broadband Metamaterial Absorber Made by Copper-based Conductive Composite. , 2020, , .		0
53	Superior performance of optimal perfectly matched layers for modeling wave propagation in elastic and poroelastic media. <i>Journal of Geophysics and Engineering</i> , 2022, 19, 106-119.	1.4	0