

Tianning Chen

List of Publications by Year in descending order

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55
papers

888
citations

516710

16
h-index

501196

28
g-index

56
all docs

56
docs citations

56
times ranked

874
citing authors

#	ARTICLE	IF	CITATIONS
1	Sculpting nanoparticle dynamics for single-bacteria-level screening and direct binding-efficiency measurement. <i>Nature Communications</i> , 2018, 9, 815.	12.8	129
2	Enlargement of locally resonant sonic band gap by using composite plate-type acoustic metamaterial. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 412-416.	2.1	70
3	Lamb wave band gaps in a double-sided phononic plate. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	43
4	Band gaps in the low-frequency range based on the two-dimensional phononic crystal plates composed of rubber matrix with periodic steel stubs. <i>Physica B: Condensed Matter</i> , 2013, 416, 12-16.	2.7	42
5	Broadband acoustic diode by using two structured impedance-matched acoustic metasurfaces. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	37
6	Band gap and defect state engineering in a multi-stub phononic crystal plate. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	33
7	Acoustic confinement and waveguiding in two-dimensional phononic crystals with material defect states. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	31
8	Waveform-preserved unidirectional acoustic transmission based on impedance-matched acoustic metasurface and phononic crystal. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	30
9	A unidirectional acoustic cloak for multilayered background media with homogeneous metamaterials. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 305502.	2.8	29
10	Band structures in two-dimensional phononic crystals with periodic Jerusalem cross slot. <i>Physica B: Condensed Matter</i> , 2015, 456, 261-266.	2.7	29
11	Asymmetric Absorption in Acoustic Metamirror Based on Surface Impedance Engineering. <i>Physical Review Applied</i> , 2019, 12, .	3.8	28
12	Three-dimensional large-scale acoustic invisibility cloak with layered metamaterials for underwater operation. <i>Physica Scripta</i> , 2019, 94, 115003.	2.5	27
13	Broadband unidirectional acoustic cloak based on phase gradient metasurfaces with two flat acoustic lenses. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	26
14	Tuning characteristic of band gap and waveguide in a multi-stub locally resonant phononic crystal plate. <i>AIP Advances</i> , 2015, 5, .	1.3	23
15	Broadband high-index prism for asymmetric acoustic transmission. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	21
16	Low-frequency sound-absorbing metasurface with a channel of nonuniform cross section. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	20
17	Low-frequency bandgaps of two-dimensional phononic crystal plate composed of asymmetric double-sided cylinder stubs. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650029.	2.0	16
18	A dissipative self-sustained optomechanical resonator on a silicon chip. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	15

#	ARTICLE	IF	CITATIONS
19	Broadband and broad-angle asymmetric acoustic transmission by unbalanced excitation of surface evanescent waves based on single-layer metasurface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126419.	2.1	15
20	Broadband reflected wavefronts manipulation using structured phase gradient metasurfaces. <i>AIP Advances</i> , 2016, 6, .	1.3	14
21	Forming Low-Frequency Complete Vibration Bandgaps in a thin Nonmetallic Elastic Metamaterial Plate. <i>Acoustical Physics</i> , 2019, 65, 322-333.	1.0	14
22	Frequency-selective modulation of reflected wave fronts using a four-mode coding acoustic metasurface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 394, 127145.	2.1	14
23	Unsplit perfectly matched layer absorbing boundary conditions for second-order poroelastic wave equations. <i>Wave Motion</i> , 2019, 89, 116-130.	2.0	13
24	Broadband asymmetric acoustic transmission through an acoustic prism. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2283-2286.	2.1	11
25	Torsional frequency mixing and sensing in optomechanical resonators. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	11
26	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
27	Fractal contact spot and its application in the contact model of isotropic surfaces. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	10
28	Ultra-Broadband Acoustic Diode in Open Bend Tunnel by Negative Reflective Metasurface. <i>Scientific Reports</i> , 2018, 8, 16089.	3.3	10
29	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
30	Switchable directional sound emission with improved field confinement based on topological insulators. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	10
31	Design and assessment of an acoustic ground cloak with layered structure. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550191.	2.0	9
32	Observation of frequency band-switchable topological edge modes using a 2 bit coding acoustic topological insulator. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255302.	2.8	9
33	Lamb waves propagation in a novel metal-matrix phononic crystals plate. <i>Modern Physics Letters B</i> , 2016, 30, 1650338.	1.9	8
34	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
35	Switchable asymmetric acoustic transmission based on topological insulator and metasurfaces. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 44LT01.	2.8	8
36	3D-printed woodpile structure for integral imaging and invisibility cloaking. <i>Materials and Design</i> , 2020, 191, 108618.	7.0	8

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37	Band structures in a two-dimensional phononic crystal with rotational multiple scatterers. International Journal of Modern Physics B, 2017, 31, 1750038.	2.0	7
38	Design and analysis of the trapeziform and flat acoustic cloaks with controllable invisibility performance in a quasi-space. AIP Advances, 2015, 5, .	1.3	5
39	Frequency-selective asymmetric transmission via the lossy acoustic metasurface. Applied Physics Express, 2019, 12, 094006.	2.4	5
40	Acoustic reprogrammable metasurface for the multi-frequency tri-channel retroreflector. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	5
41	Frequency band-selected one-way topological edge mode via acoustic metamaterials and metasurface. Journal of Applied Physics, 2021, 130, .	2.5	5
42	Determination of size and refractive index of single gold nanoparticles using an optofluidic chip. AIP Advances, 2017, 7, 095024.	1.3	4
43	Numerical Upscaling of Seismic Signatures of Poroelastic Rocks Containing Mesoscopic Fluid-saturated Voids. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	4
44	NEMS actuator driven by electrostatic and optical force with nano-scale resolution. , 2015, , .		3
45	Underwater unidirectional acoustic transmission through a plate with bilateral asymmetric gratings. Modern Physics Letters B, 2018, 32, 1850133.	1.9	3
46	Step-by-step structural design methods for adjustable low-frequency sound insulation based on infinite plate-type acoustic metamaterial panel. Modern Physics Letters B, 2020, 34, 2050220.	1.9	2
47	A nanomachined tunable oscillator controlled by electrostatic and optical force. , 2015, , .		1
48	A reconfigurable coupled optical resonators in photonic circuits for photon shutting. , 2017, , .		1
49	Parametric Excitation of Optomechanical Resonators by Periodical Modulation. Micromachines, 2018, 9, 193.	2.9	1
50	Self-excited relaxation oscillation in optomechanical ring resonator for sensing applications. , 2015, , .		0
51	All optomechanical signal modulation in photonic circuits. , 2015, , .		0
52	Unidirectional transmission of acoustic waves by using transmitted and reflected acoustic metasurfaces. Japanese Journal of Applied Physics, 2018, 57, 097301.	1.5	0
53	New devices for unidirectional acoustic cloaking for large objects in infinite frequency bandwidth. International Journal of Modern Physics B, 2018, 32, 1850264.	2.0	0
54	Sculpture Similarity Representation and Retrieval Application Based on Similarity Measurement Algorithm. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	Superior performance of optimal perfectly matched layers for modeling wave propagation in elastic and poroelastic media. Journal of Geophysics and Engineering, 2022, 19, 106-119.	1.4	0