

# Tianning Chen

## List of Publications by Year in descending order

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53  
papers

1,083  
citations

623734

14  
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434195

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53  
docs citations

53  
times ranked

1016  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Deep-subwavelength broadband sound absorbing metasurface based on the update finger coiling-up method. <i>Applied Acoustics</i> , 2022, 195, 108846.	3.3	10
4	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
5	Frequency band-selected one-way topological edge mode via acoustic metamaterials and metasurface. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	5
6	Highly Efficient Low-Frequency Broadband Sound Absorption with a Composite Hybrid Metasurface. <i>Advanced Engineering Materials</i> , 2021, 23, 2100791.	3.5	6
7	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
8	Highly Efficient Low-Frequency Broadband Sound Absorption with a Composite Hybrid Metasurface. <i>Advanced Engineering Materials</i> , 2021, 23, 2170041.	3.5	4
9	A 3D-printed adaptive cloaking-illusion-integrated metasurface. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16018-16023.	5.5	9
10	3D Manipulation of Magnetic Liquid Metals. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900170.	6.1	17
11	Switchable directional sound emission with improved field confinement based on topological insulators. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	10
12	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
13	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
14	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
15	A 3D Carpet Cloak with Non-Euclidean Metasurfaces. <i>Advanced Optical Materials</i> , 2020, 8, 2000827.	7.3	19
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	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
18	A 3D-Printed Lightweight and Broadband Metamaterial Absorber Made by Copper-based Conductive Composite. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	A dynamical tool adjustment method for computer numerical control abrasive belt grinding. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401984627.	1.6	4
20	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
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	Experimental Demonstration of a 3D-Printed Arched Metasurface Carpet Cloak. <i>Advanced Optical Materials</i> , 2019, 7, 1900475.	7.3	40
23	Broadband high-index prism for asymmetric acoustic transmission. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	21
24	Asymmetric Absorption in Acoustic Metamirror Based on Surface Impedance Engineering. <i>Physical Review Applied</i> , 2019, 12, .	3.8	28
25	Nanometer-precision linear sorting with synchronized optofluidic dual barriers. <i>Science Advances</i> , 2018, 4, eaao0773.	10.3	161
26	Plate-type metamaterials for extremely broadband low-frequency sound insulation. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850019.	2.0	8
27	Ultra-Broadband Acoustic Diode in Open Bend Tunnel by Negative Reflective Metasurface. <i>Scientific Reports</i> , 2018, 8, 16089.	3.3	10
28	Elastic Waves in Curved Space: Mimicking a Wormhole. <i>Physical Review Letters</i> , 2018, 121, 234301.	7.8	54
29	A Qualitative Approach for the Elderly's Needs in Service Robots Design. , 2018, , .		4
30	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
31	Parametric Excitation of Optomechanical Resonators by Periodical Modulation. <i>Micromachines</i> , 2018, 9, 193.	2.9	1
32	Hybrid acoustic metamaterial as super absorber for broadband low-frequency sound. <i>Scientific Reports</i> , 2017, 7, 43340.	3.3	152
33	Modulating lamb wave band gaps using an elastic metamaterial plate. <i>Acoustical Physics</i> , 2017, 63, 508-516.	1.0	6
34	Plate-type elastic metamaterials for low-frequency broadband elastic wave attenuation. <i>Ultrasonics</i> , 2017, 73, 34-42.	3.9	77
35	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
36	Lamb waves propagation in a novel metal-matrix phononic crystals plate. <i>Modern Physics Letters B</i> , 2016, 30, 1650338.	1.9	8

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37	Tunable broadband unidirectional acoustic transmission based on a waveguide with phononic crystal. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
38	Acoustic invisibility cloaks of arbitrary shapes for complex background media. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	9
39	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
40	Fractal contact spot and its application in the contact model of isotropic surfaces. Journal of Applied Physics, 2015, 118, .	2.5	10
41	Experiment Research on Bonding Effect of Poly(lactic-co-glycolic acid) Device by Surface Treatment Method. International Journal of Polymer Science, 2015, 2015, 1-7.	2.7	2
42	Research on the sound absorption characteristics of porous metal materials at high sound pressure levels. Advances in Mechanical Engineering, 2015, 7, 168781401557542.	1.6	13
43	Lamb wave band gaps in one-dimensional radial phononic crystal slabs. International Journal of Modern Physics B, 2015, 29, 1550002.	2.0	1
44	Propagation of Lamb waves in one-dimensional radial phononic crystal plates with periodic corrugations. Journal of Applied Physics, 2014, 115, .	2.5	31
45	Design of a broadband ultra-large area acoustic cloak based on a fluid medium. Journal of Applied Physics, 2014, 116, .	2.5	10
46	Band structures of bilayer radial phononic crystal plate with crystal gliding. Journal of Applied Physics, 2014, 116, .	2.5	30
47	Acoustic confinement and waveguiding in two-dimensional phononic crystals with material defect states. Journal of Applied Physics, 2014, 116, .	2.5	31
48	A Novel of Biodegradable Implants Based on PLGA for Control Delivery of Cisplatin. International Journal of Polymeric Materials and Polymeric Biomaterials, 2014, 63, 368-373.	3.4	4
49	Theoretical and numerical investigation on impact noise radiated by collision of two cylinders. Journal of Mechanical Science and Technology, 2014, 28, 2017-2024.	1.5	4
50	Lamb waves in two-dimensional phononic crystal slabs with neck structures. Journal of Applied Physics, 2013, 113, 214908.	2.5	10
51	Numerical modeling of a novel degradable drug delivery system with microholes. Microsystem Technologies, 2011, 17, 387-394.	2.0	5
52	An Experimental Study of Particle Damping for Beams and Plates. Journal of Vibration and Acoustics, Transactions of the ASME, 2004, 126, 141-148.	1.6	58
53	Simulation and Characterization of Particle Damping in Transient Vibrations. Journal of Vibration and Acoustics, Transactions of the ASME, 2004, 126, 202-211.	1.6	93