

Xiao-Peng Wang

List of Publications by Year in descending order

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61
papers

882
citations

586496

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563245

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g-index

61
all docs

61
docs citations

61
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	Deagglomeration of fine granular materials under low-frequency vertical harmonic vibration. Powder Technology, 2022, 396, 754-764.	2.1	7
2	Length correction model considering a right-angle bend of Fabry-Pérot sound absorbers. Journal of Applied Physics, 2022, 131, .	1.1	1
3	Design and quasi-static responses of a hierarchical negative Poisson's ratio structure with three plateau stages and three-step deformation. Composite Structures, 2022, 291, 115591.	3.1	20
4	Enhanced stiffness characteristic and anisotropic quasi-static compression properties of a negative Poisson's ratio mechanical metamaterial. Thin-Walled Structures, 2022, 179, 109757.	2.7	11
5	Research on coupling distorted similitude method of coupled cylindrical-conical shells. Thin-Walled Structures, 2022, 179, 109734.	2.7	4
6	In-plane dynamics crushing of a combined auxetic honeycomb with negative Poisson's ratio and enhanced energy absorption. Thin-Walled Structures, 2021, 160, 107366.	2.7	83
7	Broadband ventilated metamaterial silencer for high reflection based on Fano-like interference. International Journal of Modern Physics B, 2021, 35, 2150087.	1.0	3
8	Optimal size design of Fabry-Pérot sound absorbers based on the loss equation. Journal of Applied Physics, 2021, 130, .	1.1	7
9	DEM Modeling and Simulation of Axial Vibration Microfeeding System. Journal of Physics: Conference Series, 2020, 1676, 012148.	0.3	0
10	Lattice Boltzmann simulations of meso-vortex in resonance mixing technology. Modern Physics Letters B, 2020, 34, 2050209.	1.0	0
11	Proper Orthogonal Decomposition Analysis and Dispersion Characteristics of Resonant Acoustic Flow. Shock and Vibration, 2020, 2020, 1-13.	0.3	0
12	Low-frequency sound-absorbing metasurface with a channel of nonuniform cross section. Journal of Applied Physics, 2020, 127, .	1.1	20
13	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.	1.0	2
14	Enhanced acoustic localization in the two-dimensional phononic crystals with slit tube defect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125918.	0.9	10
15	Acoustic wave confinement in two-dimensional phononic crystal with multiple nested resonators. Modern Physics Letters B, 2019, 33, 1950450.	1.0	2
16	Underwater unidirectional acoustic transmission through a plate with bilateral asymmetric gratings. Modern Physics Letters B, 2018, 32, 1850133.	1.0	3
17	Research on the energy dissipation mechanism of nonobstructive particle dampers based on the dense granular flow theory. JVC/Journal of Vibration and Control, 2018, 24, 682-693.	1.5	0
18	Plate-type metamaterials for extremely broadband low-frequency sound insulation. International Journal of Modern Physics B, 2018, 32, 1850019.	1.0	8

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19	Commentary on "Discussion on Rheology behavior and optimal damping effect of granular particles in a non-obstructive particle damper [J. Sound Vib. 364 (2016) 30-43]". Journal of Sound and Vibration, 2018, 437, 459-462.	2.1	0
20	Unidirectional transmission of acoustic waves by using transmitted and reflected acoustic metasurfaces. Japanese Journal of Applied Physics, 2018, 57, 097301.	0.8	0
21	New devices for unidirectional acoustic cloaking for large objects in infinite frequency bandwidth. International Journal of Modern Physics B, 2018, 32, 1850264.	1.0	0
22	Bandgaps characteristics of the periodical slit metal tubes with backstraps. International Journal of Modern Physics B, 2017, 31, 1750125.	1.0	1
23	Band structures in a two-dimensional phononic crystal with rotational multiple scatterers. International Journal of Modern Physics B, 2017, 31, 1750038.	1.0	7
24	Broadband asymmetric acoustic transmission through an acoustic prism. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2283-2286.	0.9	11
25	Modulating lamb wave band gaps using an elastic metamaterial plate. Acoustical Physics, 2017, 63, 508-516.	0.2	6
26	Corrigendum to "Fractal Model for Acoustic Absorbing of Porous Fibrous Metal Materials". Shock and Vibration, 2017, 2017, 1-1.	0.3	0
27	Fractal Model for Acoustic Absorbing of Porous Fibrous Metal Materials. Shock and Vibration, 2016, 2016, 1-17.	0.3	3
28	Waveform-preserved unidirectional acoustic transmission based on impedance-matched acoustic metasurface and phononic crystal. Journal of Applied Physics, 2016, 120, .	1.1	30
29	Broadband acoustic diode by using two structured impedance-matched acoustic metasurfaces. Applied Physics Letters, 2016, 109, .	1.5	37
30	Broadband unidirectional acoustic cloak based on phase gradient metasurfaces with two flat acoustic lenses. Journal of Applied Physics, 2016, 120, .	1.1	26
31	Broadband reflected wavefronts manipulation using structured phase gradient metasurfaces. AIP Advances, 2016, 6, .	0.6	14
32	Expansion of lower-frequency locally resonant band gaps using a double-sided stubbed composite phononic crystals plate with composite stubs. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2167-2172.	0.9	59
33	Motion mode of the optimal damping particle in particle dampers. Journal of Mechanical Science and Technology, 2016, 30, 1527-1531.	0.7	13
34	Damping performance of bean bag dampers in zero gravity environments. Journal of Sound and Vibration, 2016, 371, 67-77.	2.1	6
35	Lamb waves propagation in a novel metal-matrix phononic crystals plate. Modern Physics Letters B, 2016, 30, 1650338.	1.0	8
36	Tunable broadband unidirectional acoustic transmission based on a waveguide with phononic crystal. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	7

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37	Acoustic invisibility cloaks of arbitrary shapes for complex background media. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	9
38	Rheology behavior and optimal damping effect of granular particles in a non-obstructive particle damper. Journal of Sound and Vibration, 2016, 364, 30-43.	2.1	60
39	Low-frequency bandgaps of two-dimensional phononic crystal plate composed of asymmetric double-sided cylinder stubs. International Journal of Modern Physics B, 2016, 30, 1650029.	1.0	16
40	Design and analysis of the trapeziform and flat acoustic cloaks with controllable invisibility performance in a quasi-space. AIP Advances, 2015, 5, .	0.6	5
41	Tuning characteristic of band gap and waveguide in a multi-stub locally resonant phononic crystal plate. AIP Advances, 2015, 5, .	0.6	23
42	Fractal contact spot and its application in the contact model of isotropic surfaces. Journal of Applied Physics, 2015, 118, .	1.1	10
43	Simulation and Experimental Validation of the Hot Embossing Process of Poly(lactic-co-glycolic acid) Microstructures. International Journal of Polymer Science, 2015, 2015, 1-9.	1.2	2
44	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.	1.2	2
45	Band gap and defect state engineering in a multi-stub phononic crystal plate. Journal of Applied Physics, 2015, 117, .	1.1	33
46	Research on the sound absorption characteristics of porous metal materials at high sound pressure levels. Advances in Mechanical Engineering, 2015, 7, 168781401557542.	0.8	13
47	Enlargement of locally resonant sonic band gap by using composite plate-type acoustic metamaterial. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 412-416.	0.9	70
48	Lamb wave band gaps in one-dimensional radial phononic crystal slabs. International Journal of Modern Physics B, 2015, 29, 1550002.	1.0	1
49	A unidirectional acoustic cloak for multilayered background media with homogeneous metamaterials. Journal Physics D: Applied Physics, 2015, 48, 305502.	1.3	29
50	Design and assessment of an acoustic ground cloak with layered structure. International Journal of Modern Physics B, 2015, 29, 1550191.	1.0	9
51	Design of a broadband ultra-large area acoustic cloak based on a fluid medium. Journal of Applied Physics, 2014, 116, .	1.1	10
52	Acoustic confinement and waveguiding in two-dimensional phononic crystals with material defect states. Journal of Applied Physics, 2014, 116, .	1.1	31
53	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.	1.8	4
54	Discrete element method model and damping performance of bean bag dampers. Journal of Sound and Vibration, 2014, 333, 6024-6037.	2.1	21

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55	Theoretical and numerical investigation on impact noise radiated by collision of two cylinders. Journal of Mechanical Science and Technology, 2014, 28, 2017-2024.	0.7	4
56	Lamb wave band gaps in a double-sided phononic plate. Journal of Applied Physics, 2013, 113, .	1.1	43
57	Band gaps in the low-frequency range based on the two-dimensional phononic crystal plates composed of rubber matrix with periodic steel stubs. Physica B: Condensed Matter, 2013, 416, 12-16.	1.3	42
58	Large band gaps in two-dimensional phononic crystals with neck structures. Journal of Applied Physics, 2013, 113, .	1.1	14
59	Numerical modeling of a novel degradable drug delivery system with microholes. Microsystem Technologies, 2011, 17, 387-394.	1.2	5
60	Study on structural optimum design of implantable drug delivery micro-system. Simulation Modelling Practice and Theory, 2007, 15, 47-56.	2.2	7
61	Modeling and simulation of drug delivery from a new type of biodegradable polymer micro-device. Sensors and Actuators A: Physical, 2007, 133, 363-367.	2.0	10