

Honggang Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,648
citations

394390

19
h-index

477281

29
g-index

30
all docs

30
docs citations

30
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexural vibration band gaps in Timoshenko beams with locally resonant structures. Journal of Applied Physics, 2006, 100, 124901.	2.5	219
2	Optimization of locally resonant acoustic metamaterials on underwater sound absorption characteristics. Journal of Sound and Vibration, 2012, 331, 4406-4416.	3.9	139
3	Effects of locally resonant modes on underwater sound absorption in viscoelastic materials. Journal of the Acoustical Society of America, 2011, 130, 1201-1208.	1.1	138
4	Low-frequency sound absorption of hybrid absorber based on micro-perforated panel and coiled-up channels. Applied Physics Letters, 2019, 114, .	3.3	137
5	A tunable sound-absorbing metamaterial based on coiled-up space. Journal of Applied Physics, 2018, 123, .	2.5	111
6	Theoretical and experimental investigation of flexural wave propagation in straight beams with periodic structures: Application to a vibration isolation structure. Journal of Applied Physics, 2005, 97, 114907.	2.5	103
7	Low-frequency acoustic absorption of localized resonances: Experiment and theory. Journal of Applied Physics, 2010, 107, .	2.5	73
8	A double porosity material for low frequency sound absorption. Composite Structures, 2020, 239, 111978.	5.8	69
9	Tri-component phononic crystals for underwater anechoic coatings. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 367, 224-232.	2.1	63
10	Analysis of absorption performances of anechoic layers with steel plate backing. Journal of the Acoustical Society of America, 2012, 132, 69-75.	1.1	63
11	A space-coiled acoustic metamaterial with tunable low-frequency sound absorption. Europhysics Letters, 2017, 120, 54001.	2.0	63
12	Absorptive properties of three-dimensional phononic crystal. Journal of Sound and Vibration, 2007, 303, 185-194.	3.9	56
13	Backing effects on the underwater acoustic absorption of a viscoelastic slab with locally resonant scatterers. Applied Acoustics, 2014, 76, 48-51.	3.3	52
14	Optimization and mechanism of acoustic absorption of Alberich coatings on a steel plate in water. Applied Acoustics, 2018, 140, 183-187.	3.3	45
15	A slim subwavelength absorber based on coupled microslits. Applied Acoustics, 2018, 142, 11-17.	3.3	39
16	Dynamics and sound attenuation in viscoelastic polymer containing hollow glass microspheres. Journal of Applied Physics, 2007, 101, 123518.	2.5	33
17	Effect of Poisson's loss factor of rubbery material on underwater sound absorption of anechoic coatings. Journal of Sound and Vibration, 2018, 424, 293-301.	3.9	33
18	Study on the vibration band gap and vibration attenuation property of phononic crystals. Science in China Series D: Earth Sciences, 2008, 51, 85-99.	0.9	29

#	ARTICLE	IF	CITATIONS
19	Theoretical requirements and inverse design for broadband perfect absorption of low-frequency waterborne sound by ultrathin metasurface. <i>Scientific Reports</i> , 2019, 9, 1181.	3.3	26
20	Accelerated topological design of metaporous materials of broadband sound absorption performance by generative adversarial networks. <i>Materials and Design</i> , 2021, 207, 109855.	7.0	21
21	On wave propagation and attenuation properties of underwater acoustic screens consisting of periodically perforated rubber layers with metal plates. <i>Journal of Sound and Vibration</i> , 2019, 444, 21-34.	3.9	19
22	SAP-Net: Deep learning to predict sound absorption performance of metaporous materials. <i>Materials and Design</i> , 2021, 212, 110156.	7.0	19
23	Theory and numerical method for the effects of hydrostatic pressure on sound absorption of underwater acoustic coatings with air cavities. <i>Journal of Sound and Vibration</i> , 2022, 533, 116985.	3.9	19
24	Inverse design of structured materials for broadband sound absorption. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 265301.	2.8	18
25	Topological design of lattice materials with application to underwater sound insulation. <i>Mechanical Systems and Signal Processing</i> , 2022, 171, 108911.	8.0	17
26	Acoustic absorption of a metamaterial panel: Mechanism, boundary effect and experimental demonstration. <i>Applied Acoustics</i> , 2021, 184, 108369.	3.3	16
27	Hybrid meta-structure for broadband waterborne sound absorption. <i>AIP Advances</i> , 2019, 9, .	1.3	13
28	Improvement of sound absorption and insulation using a double-layer metamaterial. <i>AIP Advances</i> , 2020, 10, .	1.3	8
29	Low-frequency sound absorber based on micro-slit entrance and space-coiling channels. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 045503.	1.5	7
30	Absorption Mechanism and Optimization of a Subwavelength Acoustic Absorber. <i>Journal of Physics: Conference Series</i> , 2021, 1838, 012017.	0.4	0