

Honggang Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

976
citations

18
h-index

30
g-index

30
ext. papers

1,300
ext. citations

3.3
avg. IF

4.26
L-index

#	Paper	IF	Citations
30	Topological design of lattice materials with application to underwater sound insulation. <i>Mechanical Systems and Signal Processing</i> , 2022 , 171, 108911	7.8	2
29	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 , 116985	3.9	0
28	SAP-Net: Deep learning to predict sound absorption performance of metaporous materials. <i>Materials and Design</i> , 2021 , 212, 110156	8.1	1
27	Inverse design of structured materials for broadband sound absorption. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 265301	3	3
26	Absorption Mechanism and Optimization of a Subwavelength Acoustic Absorber. <i>Journal of Physics: Conference Series</i> , 2021 , 1838, 012017	0.3	
25	Accelerated topological design of metaporous materials of broadband sound absorption performance by generative adversarial networks. <i>Materials and Design</i> , 2021 , 207, 109855	8.1	3
24	Acoustic absorption of a metamaterial panel: Mechanism, boundary effect and experimental demonstration. <i>Applied Acoustics</i> , 2021 , 184, 108369	3.1	2
23	Low-frequency sound absorber based on micro-slit entrance and space-coiling channels. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 045503	1.4	3
22	A double porosity material for low frequency sound absorption. <i>Composite Structures</i> , 2020 , 239, 111978	3.3	36
21	Improvement of sound absorption and insulation using a double-layer metamaterial. <i>AIP Advances</i> , 2020 , 10, 095010	1.5	4
20	Low-frequency sound absorption of hybrid absorber based on micro-perforated panel and coiled-up channels. <i>Applied Physics Letters</i> , 2019 , 114, 151901	3.4	62
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	4.9	13
18	Hybrid meta-structure for broadband waterborne sound absorption. <i>AIP Advances</i> , 2019 , 9, 125226	1.5	5
17	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	7
16	Effect of Poisson's loss factor of rubbery material on underwater sound absorption of anechoic coatings. <i>Journal of Sound and Vibration</i> , 2018 , 424, 293-301	3.9	18
15	A slim subwavelength absorber based on coupled microslits. <i>Applied Acoustics</i> , 2018 , 142, 11-17	3.1	28
14	Optimization and mechanism of acoustic absorption of Alberich coatings on a steel plate in water. <i>Applied Acoustics</i> , 2018 , 140, 183-187	3.1	18

13	A tunable sound-absorbing metamaterial based on coiled-up space. <i>Journal of Applied Physics</i> , 2018 , 123, 185109	2.5	59
12	A space-coiled acoustic metamaterial with tunable low-frequency sound absorption. <i>Europhysics Letters</i> , 2017 , 120, 54001	1.6	37
11	Backing effects on the underwater acoustic absorption of a viscoelastic slab with locally resonant scatterers. <i>Applied Acoustics</i> , 2014 , 76, 48-51	3.1	30
10	Analysis of absorption performances of anechoic layers with steel plate backing. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 69-75	2.2	46
9	Optimization of locally resonant acoustic metamaterials on underwater sound absorption characteristics. <i>Journal of Sound and Vibration</i> , 2012 , 331, 4406-4416	3.9	82
8	Effects of locally resonant modes on underwater sound absorption in viscoelastic materials. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 1201-8	2.2	88
7	Low-frequency acoustic absorption of localized resonances: Experiment and theory. <i>Journal of Applied Physics</i> , 2010 , 107, 023519	2.5	52
6	Study on the vibration band gap and vibration attenuation property of phononic crystals. <i>Science in China Series D: Earth Sciences</i> , 2008 , 51, 85-99		19
5	Absorptive properties of three-dimensional phononic crystal. <i>Journal of Sound and Vibration</i> , 2007 , 303, 185-194	3.9	46
4	Tri-component phononic crystals for underwater anechoic coatings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 367, 224-232	2.3	41
3	Dynamics and sound attenuation in viscoelastic polymer containing hollow glass microspheres. <i>Journal of Applied Physics</i> , 2007 , 101, 123518	2.5	25
2	Flexural vibration band gaps in Timoshenko beams with locally resonant structures. <i>Journal of Applied Physics</i> , 2006 , 100, 124901	2.5	160
1	Theoretical and experimental investigation of flexural wave propagation in straight beams with periodic structures: Application to a vibration isolation structure. <i>Journal of Applied Physics</i> , 2005 , 97, 114907	2.5	86