

Kai Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

687
citations

687363

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all docs

23
docs citations

23
times ranked

473
citing authors

#	ARTICLE	IF	CITATIONS
1	A method to predict the ultimate tensile strength of 3D printing polylactic acid (PLA) materials with different printing orientations. <i>Composites Part B: Engineering</i> , 2019, 163, 393-402.	12.0	195
2	Programmable elastic valley Hall insulator with tunable interface propagation routes. <i>Extreme Mechanics Letters</i> , 2019, 28, 76-80.	4.1	76
3	Free vibration of nonlocal Timoshenko beams made of functionally graded materials by Symplectic method. <i>Composites Part B: Engineering</i> , 2019, 156, 174-184.	12.0	56
4	Tunable fluid-solid metamaterials for manipulation of elastic wave propagation in broad frequency range. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	50
5	Seismic metamaterials with cross-like and square steel sections for low-frequency wide band gaps. <i>Engineering Structures</i> , 2021, 232, 111870.	5.3	46
6	Tunable wave propagation in octa-chiral lattices with local resonators. <i>Composite Structures</i> , 2019, 220, 114-126.	5.8	30
7	3D chiral mechanical metamaterial for tailored band gap and manipulation of vibration isolation. <i>Mechanical Systems and Signal Processing</i> , 2022, 180, 109430.	8.0	30
8	On the directional wave propagation in the tetrachiral and hexachiral lattices with local resonators. <i>Smart Materials and Structures</i> , 2020, 29, 015017.	3.5	28
9	Elastic Wave Propagation in Lattice Metamaterials with Koch Fractal. <i>Acta Mechanica Solida Sinica</i> , 2020, 33, 600-611.	1.9	27
10	Multi-resonator coupled metamaterials for broadband vibration suppression. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 53-64.	3.6	25
11	Wave propagation properties of rotationally symmetric lattices with curved beams. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 1567-1584.	1.1	19
12	Analysis of temperature-dependent wave propagation for programmable lattices. <i>International Journal of Mechanical Sciences</i> , 2020, 171, 105372.	6.7	18
13	Effect of pre-load on wave propagation characteristics of hexagonal lattices. <i>Composite Structures</i> , 2018, 203, 361-372.	5.8	17
14	Orthotropic elastic behaviors and yield strength of fused deposition modeling materials: Theory and experiments. <i>Polymer Testing</i> , 2020, 87, 106520.	4.8	13
15	A modified creep model of polylactic acid (PLA) materials with different printing angles processed by fused filament fabrication. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50270.	2.6	11
16	On the wave propagation properties and Poisson's ratio of the Star-3/6 structures. <i>Composite Structures</i> , 2021, 270, 114089.	5.8	11
17	Elastic wave propagation in nonlinear two-dimensional acoustic metamaterials. <i>Nonlinear Dynamics</i> , 2022, 108, 743-763.	5.2	11
18	Tacticity-based one-dimensional chiral equilateral lattice for tailored wave propagation and design of elastic wave logic gate. <i>Journal of Sound and Vibration</i> , 2022, 521, 116671.	3.9	10

#	ARTICLE	IF	CITATIONS
19	Topological edge state analysis of hexagonal phononic crystals. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	3.4	5
20	Topological insulator in a hexagonal plate with droplet holes. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 105502.	2.8	4
21	Thermomechanical response of metallic sandwich tubes with prismatic cores considering active cooling. <i>Archive of Applied Mechanics</i> , 2014, 84, 1145-1164.	2.2	3
22	Mechanism of Band Gaps in Self-Similar Triangular Lattice With Koch Fractal. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2022, 144, .	1.6	2
23	Effect of interaction of adjacent unit-cells on wave propagation in coupled mass-in-mass metamaterials. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 4228-4236.	1.1	0