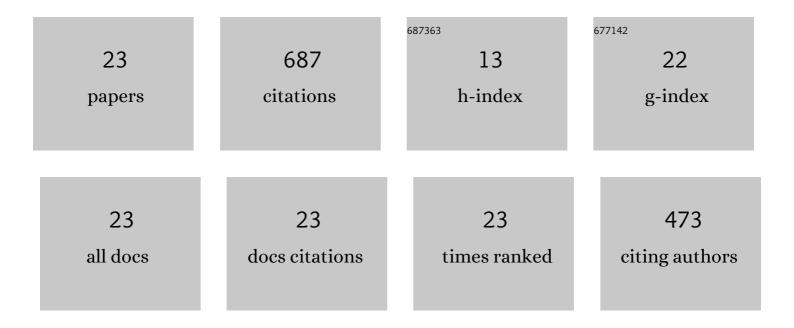
Kai Zhang

List of Publications by Year in descending order

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KAI ZHANC

#	Article	IF	CITATIONS
1	Mechanism of Band Gaps in Self-Similar Triangular Lattice With Koch Fractal. Journal of Vibration and Acoustics, Transactions of the ASME, 2022, 144, .	1.6	2
2	Tacticity-based one-dimensional chiral equilateral lattice for tailored wave propagation and design of elastic wave logic gate. Journal of Sound and Vibration, 2022, 521, 116671.	3.9	10
3	Elastic wave propagation in nonlinear two-dimensional acoustic metamaterials. Nonlinear Dynamics, 2022, 108, 743-763.	5.2	11
4	Topological edge state analysis of hexagonal phononic crystals. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	5
5	3D chiral mechanical metamaterial for tailored band gap and manipulation of vibration isolation. Mechanical Systems and Signal Processing, 2022, 180, 109430.	8.0	30
6	Effect of interaction of adjacent unit-cells on wave propagation in coupled mass-in-mass metamaterials. Journal of the Acoustical Society of America, 2022, 151, 4228-4236.	1.1	0
7	A modified creep model of polylactic acid (<scp>PLA</scp> â€max) materials with different printing angles processed by fused filament fabrication. Journal of Applied Polymer Science, 2021, 138, 50270.	2.6	11
8	Seismic metamaterials with cross-like and square steel sections for low-frequency wide band gaps. Engineering Structures, 2021, 232, 111870.	5.3	46
9	On the wave propagation properties and Poisson's ratio of the Star-3/6 structures. Composite Structures, 2021, 270, 114089.	5.8	11
10	Multi-resonator coupled metamaterials for broadband vibration suppression. Applied Mathematics and Mechanics (English Edition), 2021, 42, 53-64.	3.6	25
11	Topological insulator in a hexagonal plate with droplet holes. Journal Physics D: Applied Physics, 2021, 54, 105502.	2.8	4
12	Analysis of temperature-dependent wave propagation for programmable lattices. International Journal of Mechanical Sciences, 2020, 171, 105372.	6.7	18
13	Elastic Wave Propagation in Lattice Metamaterials with Koch Fractal. Acta Mechanica Solida Sinica, 2020, 33, 600-611.	1.9	27
14	Wave propagation properties of rotationally symmetric lattices with curved beams. Journal of the Acoustical Society of America, 2020, 148, 1567-1584.	1.1	19
15	On the directional wave propagation in the tetrachiral and hexachiral lattices with local resonators. Smart Materials and Structures, 2020, 29, 015017.	3.5	28
16	Orthotropic elastic behaviors and yield strength of fused deposition modeling materials: Theory and experiments. Polymer Testing, 2020, 87, 106520.	4.8	13
17	Free vibration of nonlocal Timoshenko beams made of functionally graded materials by Symplectic method. Composites Part B: Engineering, 2019, 156, 174-184.	12.0	56
18	Programmable elastic valley Hall insulator with tunable interface propagation routes. Extreme Mechanics Letters, 2019, 28, 76-80.	4.1	76

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#	Article	IF	CITATIONS
19	Tunable wave propagation in octa-chiral lattices with local resonators. Composite Structures, 2019, 220, 114-126.	5.8	30
20	A method to predict the ultimate tensile strength of 3D printing polylactic acid (PLA) materials with different printing orientations. Composites Part B: Engineering, 2019, 163, 393-402.	12.0	195
21	Effect of pre-load on wave propagation characteristics of hexagonal lattices. Composite Structures, 2018, 203, 361-372.	5.8	17
22	Tunable fluid-solid metamaterials for manipulation of elastic wave propagation in broad frequency range. Applied Physics Letters, 2018, 112, .	3.3	50
23	Thermomechanical response of metallic sandwich tubes with prismatic cores considering active cooling. Archive of Applied Mechanics, 2014, 84, 1145-1164.	2.2	3