

Jiayi Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,858
citations

186265

28
h-index

175258

52
g-index

61
all docs

61
docs citations

61
times ranked

781
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear dynamic characteristics of a quasi-zero stiffness vibration isolator with cam-roller-spring mechanisms. <i>Journal of Sound and Vibration</i> , 2015, 346, 53-69.	3.9	329
2	Theoretical and experimental analyses of a nonlinear magnetic vibration isolator with quasi-zero-stiffness characteristic. <i>Journal of Sound and Vibration</i> , 2013, 332, 3377-3389.	3.9	250
3	A novel quasi-zero-stiffness strut and its applications in six-degree-of-freedom vibration isolation platform. <i>Journal of Sound and Vibration</i> , 2017, 394, 59-74.	3.9	148
4	Design and numerical validation of quasi-zero-stiffness metamaterials for very low-frequency band gaps. <i>Composite Structures</i> , 2020, 236, 111862.	5.8	132
5	Force transmissibility of a two-stage vibration isolation system with quasi-zero stiffness. <i>Nonlinear Dynamics</i> , 2017, 87, 633-646.	5.2	111
6	On the analytical and experimental assessment of the performance of a quasi-zero-stiffness isolator. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 2314-2325.	2.6	109
7	A torsion quasi-zero stiffness vibration isolator. <i>Journal of Sound and Vibration</i> , 2015, 338, 121-133.	3.9	106
8	Design and experimental investigation of ultra-low frequency vibration isolation during neonatal transport. <i>Mechanical Systems and Signal Processing</i> , 2020, 139, 106633.	8.0	103
9	A semi-active metamaterial beam with electromagnetic quasi-zero-stiffness resonators for ultralow-frequency band gap tuning. <i>International Journal of Mechanical Sciences</i> , 2020, 176, 105548.	6.7	101
10	A nonlinear resonator with inertial amplification for very low-frequency flexural wave attenuations in beams. <i>Nonlinear Dynamics</i> , 2019, 96, 647-665.	5.2	89
11	Local resonator with high-static-low-dynamic stiffness for lowering band gaps of flexural wave in beams. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	84
12	A nonlinear ultra-low-frequency vibration isolator with dual quasi-zero-stiffness mechanism. <i>Nonlinear Dynamics</i> , 2020, 101, 755-773.	5.2	83
13	Low-frequency band gaps in a metamaterial rod by negative-stiffness mechanisms: Design and experimental validation. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	77
14	Lower band gaps of longitudinal wave in a one-dimensional periodic rod by exploiting geometrical nonlinearity. <i>Mechanical Systems and Signal Processing</i> , 2019, 124, 664-678.	8.0	74
15	A quasi-zero-stiffness dynamic vibration absorber. <i>Journal of Sound and Vibration</i> , 2021, 494, 115859.	3.9	66
16	Mathematical modeling and analysis of a meta-plate for very low-frequency band gap. <i>Applied Mathematical Modelling</i> , 2019, 73, 581-597.	4.2	61
17	A Six Degrees-of-Freedom Vibration Isolation Platform Supported by a Hexapod of Quasi-Zero-Stiffness Struts. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017, 139, .	1.6	58
18	A dual quasi-zero-stiffness sliding-mode triboelectric nanogenerator for harvesting ultralow-low frequency vibration energy. <i>Mechanical Systems and Signal Processing</i> , 2021, 151, 107368.	8.0	58

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19	Bio-inspired bistable piezoelectric vibration energy harvester: Design and experimental investigation. <i>Energy</i> , 2021, 228, 120595.	8.8	58
20	Sensitivity analysis of parametric errors on the performance of a torsion quasi-zero-stiffness vibration isolator. <i>International Journal of Mechanical Sciences</i> , 2017, 134, 336-346.	6.7	56
21	Vibration isolation in neonatal transport by using a quasi-zero-stiffness isolator. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 3278-3291.	2.6	53
22	Low-frequency locally resonant band gap of the two-dimensional quasi-zero-stiffness metamaterials. <i>International Journal of Mechanical Sciences</i> , 2022, 222, 107230.	6.7	49
23	Bow-type bistable triboelectric nanogenerator for harvesting energy from low-frequency vibration. <i>Nano Energy</i> , 2022, 92, 106746.	16.0	48
24	Tunable ultralow frequency wave attenuations in one-dimensional quasi-zero-stiffness metamaterial. <i>International Journal of Mechanics and Materials in Design</i> , 2021, 17, 285-300.	3.0	44
25	Flexural wave attenuation by metamaterial beam with compliant quasi-zero-stiffness resonators. <i>Mechanical Systems and Signal Processing</i> , 2022, 174, 109119.	8.0	42
26	Fabrication, dynamic properties and multi-objective optimization of a metal origami tube with Miura sheets. <i>Thin-Walled Structures</i> , 2019, 144, 106352.	5.3	39
27	Limb-inspired bionic quasi-zero stiffness vibration isolator. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1152-1167.	3.4	39
28	Multi-low-frequency flexural wave attenuation in Euler-Bernoulli beams using local resonators containing negative-stiffness mechanisms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3141-3148.	2.1	38
29	A brief review of metamaterials for opening low-frequency band gaps. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022, 43, 1125-1144.	3.6	28
30	Theoretical and experimental investigations on semi-active quasi-zero-stiffness dynamic vibration absorber. <i>International Journal of Mechanical Sciences</i> , 2022, 214, 106892.	6.7	26
31	A nonlinear hybrid energy harvester with high ultralow-frequency energy harvesting performance. <i>Meccanica</i> , 2021, 56, 461-480.	2.0	25
32	A non-smooth quasi-zero-stiffness isolator with displacement constraints. <i>International Journal of Mechanical Sciences</i> , 2022, 225, 107351.	6.7	23
33	Tunable low-frequency torsional-wave band gaps in a meta-shaft. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 055104.	2.8	22
34	Elastic structural response of prismatic metal sandwich tubes to internal moving pressure loading. <i>International Journal of Solids and Structures</i> , 2009, 46, 2354-2371.	2.7	19
35	Wave propagation analysis in nonlinear curved single-walled carbon nanotubes based on nonlocal elasticity theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 66, 283-292.	2.7	19
36	Design and experimental study of a compact quasi-zero-stiffness isolator using wave springs. <i>Science China Technological Sciences</i> , 2021, 64, 2255-2271.	4.0	18

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37	Numerical and Experimental Investigations on Tunable Low-frequency Locally Resonant Metamaterials. <i>Acta Mechanica Solida Sinica</i> , 2021, 34, 612-623.	1.9	17
38	Bidirectional deep-subwavelength band gap induced by negative stiffness. <i>Journal of Sound and Vibration</i> , 2021, 515, 116474.	3.9	17
39	Chaotification of vibration isolation floating raft system via nonlinear time-delay feedback control. <i>Chaos, Solitons and Fractals</i> , 2012, 45, 1255-1265.	5.1	15
40	Optimal design of metallic sandwich tubes with prismatic cores to internal moving shock load. <i>Structural and Multidisciplinary Optimization</i> , 2010, 41, 133-150.	3.5	13
41	Nonlinear dynamic analysis of 2-DOF nonlinear vibration isolation floating raft systems with feedback control. <i>Chaos, Solitons and Fractals</i> , 2012, 45, 1092-1099.	5.1	12
42	Dynamic analysis of embedded curved double-walled carbon nanotubes based on nonlocal Euler-Bernoulli Beam theory. <i>Multidiscipline Modeling in Materials and Structures</i> , 2012, 8, 432-453.	1.3	11
43	Chaotification and optimization design of a nonlinear vibration isolation system. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 2129-2139.	2.6	10
44	Spectrum optimization-based chaotification using time-delay feedback control. <i>Chaos, Solitons and Fractals</i> , 2012, 45, 815-824.	5.1	10
45	Modeling and analysis of the friction in a non-linear sliding-mode triboelectric energy harvester. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	3.4	9
46	Symplectic analysis for elastic wave propagation in two-dimensional cellular structures. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010, 26, 711-720.	3.4	7
47	Symplectic analysis for wave propagation in one-dimensional nonlinear periodic structures. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2010, 31, 1371-1382.	3.6	7
48	Transient thermal response in thick orthotropic hollow cylinders with finite length: High order shell theory. <i>Acta Mechanica Solida Sinica</i> , 2010, 23, 156-166.	1.9	6
49	On theoretical and experimental study of a two-degree-of-freedom anti-resonance floating vibration isolation system. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 1886-1901.	2.6	6
50	Chaotifying Duffing-type System with Large Parameter Range Based on Optimal Time-Delay Feedback Control. , 2010, , .		5
51	Research Progress on Mechanical Fault Diagnosis of On-load Tap Changer Based on Vibration Analysis. , 2021, , .		5
52	CHAOTIFICATION OF A NONLINEAR VIBRATION ISOLATION SYSTEM BY DUAL TIME DELAYED FEEDBACK CONTROL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350096.	1.7	4
53	Vibration suppression investigation and parametric design of tri-axle straight heavy truck with pitch-resistant hydraulically interconnected suspension. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 3823-3840.	2.6	4
54	Optimal design of box-section sandwich beams subject to moving load. <i>Structural and Multidisciplinary Optimization</i> , 2010, 42, 531-546.	3.5	3

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55	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
56	Design and homogenization of metal sandwich tubes with prismatic cores. <i>Structural Engineering and Mechanics</i> , 2013, 45, 439-454.	1.0	3
57	Critical velocity of sandwich cylindrical shell under moving internal pressure. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2008, 29, 1569-1578.	3.6	2
58	High-Efficiency Vibration Isolation for a Three-Phase Power Transformer by a Quasi-Zero-Stiffness Isolator. <i>Shock and Vibration</i> , 2021, 2021, 1-11.	0.6	2
59	A COMPUTATIONAL METHOD FOR HIGHLY STIFF NONLINEAR SPATIOTEMPORAL SYSTEMS. <i>International Journal of Computational Methods</i> , 2010, 07, 609-625.	1.3	1
60	Dynamic response of prismatic metallic sandwich tubes under combined internal shock pressure and thermal load. <i>Composite Structures</i> , 2011, , .	5.8	1