

Ze-Qi Lu

List of Publications by Year in descending order

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37
papers

1,757
citations

236925

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361022

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all docs

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docs citations

37
times ranked

667
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-static-low-dynamics stiffness vibration isolator via an elliptical ring. <i>Mechanical Systems and Signal Processing</i> , 2022, 162, 108061.	8.0	23
2	Experimental observation of transverse and longitudinal wave propagation in a metamaterial periodically arrayed with nonlinear resonators. <i>Mechanical Systems and Signal Processing</i> , 2022, 170, 108836.	8.0	10
3	A nonlinear vibration isolator supported on a flexible plate: analysis and experiment. <i>Nonlinear Dynamics</i> , 2022, 108, 941-958.	5.2	98
4	Orthogonal six-DOFs vibration isolation with tunable high-static-low-dynamic stiffness: Experiment and analysis. <i>International Journal of Mechanical Sciences</i> , 2022, 222, 107237.	6.7	63
5	Energy harvesting of a fluid-conveying piezoelectric pipe. <i>Applied Mathematical Modelling</i> , 2022, 107, 165-181.	4.2	21
6	Rotational nonlinear double-beam energy harvesting. <i>Smart Materials and Structures</i> , 2022, 31, 025020.	3.5	44
7	Energy Transfer of an Axially Loaded Beam With a Parallel-Coupled Nonlinear Vibration Isolator. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2022, 144, .	1.6	41
8	Vibration isolation and energy harvesting integrated in a Stewart platform with high static and low dynamic stiffness. <i>Applied Mathematical Modelling</i> , 2021, 89, 249-267.	4.2	102
9	A dual-functional metamaterial for integrated vibration isolation and energy harvesting. <i>Journal of Sound and Vibration</i> , 2021, 509, 116251.	3.9	117
10	A ring vibration isolator enhanced by a nonlinear energy sink. <i>Journal of Sound and Vibration</i> , 2021, 508, 116201.	3.9	32
11	A ring vibration isolator enhanced by shape memory pseudoelasticity. <i>Applied Mathematical Modelling</i> , 2021, 100, 1-15.	4.2	12
12	Nonlinear vibration isolation via a circular ring. <i>Mechanical Systems and Signal Processing</i> , 2020, 136, 106490.	8.0	114
13	Integrated vibration isolation and energy harvesting via a bistable piezo-composite plate. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 779-789.	2.6	38
14	Internal resonance and stress distribution of pipes conveying fluid in supercritical regime. <i>International Journal of Mechanical Sciences</i> , 2020, 186, 105900.	6.7	26
15	Two-span piezoelectric beam energy harvesting. <i>International Journal of Mechanical Sciences</i> , 2020, 175, 105532.	6.7	49
16	Nonlinear vibration effects on the fatigue life of fluid-conveying pipes composed of axially functionally graded materials. <i>Nonlinear Dynamics</i> , 2020, 100, 1091-1104.	5.2	43
17	A bio-inspired isolator based on characteristics of quasi-zero stiffness and bird multi-layer neck. <i>Mechanical Systems and Signal Processing</i> , 2020, 145, 106967.	8.0	100
18	Comparison of Linear and Nonlinear Damping Effects on a Ring Vibration Isolator. , 2020, , 13-22.		1

#	ARTICLE	IF	CITATIONS
19	Jump-based estimation for nonlinear stiffness and damping parameters. JVC/Journal of Vibration and Control, 2019, 25, 325-335.	2.6	19
20	Dynamic effects of weights on vibration reduction by a nonlinear energy sink moving vertically. Journal of Sound and Vibration, 2019, 451, 99-119.	3.9	37
21	An inertial nonlinear energy sink. Journal of Sound and Vibration, 2019, 450, 199-213.	3.9	86
22	High-static-low-dynamic-stiffness vibration isolation enhanced by damping nonlinearity. Science China Technological Sciences, 2019, 62, 1103-1110.	4.0	65
23	Resonance response interaction without internal resonance in vibratory energy harvesting. Mechanical Systems and Signal Processing, 2019, 121, 767-776.	8.0	45
24	Nonlinear energy harvesting based on a modified snap-through mechanism. Applied Mathematics and Mechanics (English Edition), 2019, 40, 167-180.	3.6	32
25	Nonlinear isolation of transverse vibration of pre-pressure beams. Journal of Sound and Vibration, 2019, 442, 738-751.	3.9	67
26	A lever-type nonlinear energy sink. Journal of Sound and Vibration, 2018, 437, 119-134.	3.9	99
27	Power Flow in a Two-Stage Nonlinear Vibration Isolation System with High-Static-Low-Dynamic Stiffness. Shock and Vibration, 2018, 2018, 1-13.	0.6	5
28	Experimental Investigation of a Two-Stage Nonlinear Vibration Isolation System With High-Static-Low-Dynamic Stiffness. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	2.2	88
29	Analysis and suppression of a self-excitation vibration via internal stiffness and damping nonlinearity. Advances in Mechanical Engineering, 2017, 9, 168781401774402.	1.6	4
30	On the transmissibilities of nonlinear vibration isolation system. Journal of Sound and Vibration, 2016, 375, 28-37.	3.9	74
31	The Characteristics of Vibration Isolation System with Damping and Stiffness Geometrically Nonlinear. Journal of Physics: Conference Series, 2016, 744, 012115.	0.4	2
32	Broadband vibratory energy harvesting via bubble shaped response curves. Journal of Physics: Conference Series, 2016, 744, 012076.	0.4	0
33	Stochastic resonance in a nonlinear mechanical vibration isolation system. Journal of Sound and Vibration, 2016, 370, 221-229.	3.9	41
34	On the Performance of a Two-Stage Vibration Isolation System Which has Geometrically Nonlinear Stiffness. Journal of Vibration and Acoustics, Transactions of the ASME, 2014, 136, .	1.6	42
35	An investigation into the isolation performance of mono-and bi-stable systems. Journal of Marine Science and Application, 2014, 13, 291-298.	1.7	7
36	An investigation of a two-stage nonlinear vibration isolation system. Journal of Sound and Vibration, 2013, 332, 1456-1464.	3.9	95

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37	Hydrogen bio-production through anaerobic microorganism fermentation using kitchen wastes as substrate. <i>Biotechnology Letters</i> , 2009, 31, 1327-1333.	2.2	15