

Ze-Qi Lu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2466662/publications.pdf>

Version: 2024-02-01

37
papers

1,757
citations

236925

25
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

667
citing authors

#	ARTICLE	IF	CITATIONS
1	A dual-functional metamaterial for integrated vibration isolation and energy harvesting. Journal of Sound and Vibration, 2021, 509, 116251.	3.9	117
2	Nonlinear vibration isolation via a circular ring. Mechanical Systems and Signal Processing, 2020, 136, 106490.	8.0	114
3	Vibration isolation and energy harvesting integrated in a Stewart platform with high static and low dynamic stiffness. Applied Mathematical Modelling, 2021, 89, 249-267.	4.2	102
4	A bio-inspired isolator based on characteristics of quasi-zero stiffness and bird multi-layer neck. Mechanical Systems and Signal Processing, 2020, 145, 106967.	8.0	100
5	A lever-type nonlinear energy sink. Journal of Sound and Vibration, 2018, 437, 119-134.	3.9	99
6	A nonlinear vibration isolator supported on a flexible plate: analysis and experiment. Nonlinear Dynamics, 2022, 108, 941-958.	5.2	98
7	An investigation of a two-stage nonlinear vibration isolation system. Journal of Sound and Vibration, 2013, 332, 1456-1464.	3.9	95
8	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
9	An inertial nonlinear energy sink. Journal of Sound and Vibration, 2019, 450, 199-213.	3.9	86
10	On the transmissibilities of nonlinear vibration isolation system. Journal of Sound and Vibration, 2016, 375, 28-37.	3.9	74
11	Nonlinear isolation of transverse vibration of pre-pressure beams. Journal of Sound and Vibration, 2019, 442, 738-751.	3.9	67
12	High-static-low-dynamic-stiffness vibration isolation enhanced by damping nonlinearity. Science China Technological Sciences, 2019, 62, 1103-1110.	4.0	65
13	Orthogonal six-DOFs vibration isolation with tunable high-static-low-dynamic stiffness: Experiment and analysis. International Journal of Mechanical Sciences, 2022, 222, 107237.	6.7	63
14	Two-span piezoelectric beam energy harvesting. International Journal of Mechanical Sciences, 2020, 175, 105532.	6.7	49
15	Resonance response interaction without internal resonance in vibratory energy harvesting. Mechanical Systems and Signal Processing, 2019, 121, 767-776.	8.0	45
16	Rotational nonlinear double-beam energy harvesting. Smart Materials and Structures, 2022, 31, 025020.	3.5	44
17	Nonlinear vibration effects on the fatigue life of fluid-conveying pipes composed of axially functionally graded materials. Nonlinear Dynamics, 2020, 100, 1091-1104.	5.2	43
18	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

#	ARTICLE	IF	CITATIONS
19	Stochastic resonance in a nonlinear mechanical vibration isolation system. <i>Journal of Sound and Vibration</i> , 2016, 370, 221-229.	3.9	41
20	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
21	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
22	Dynamic effects of weights on vibration reduction by a nonlinear energy sink moving vertically. <i>Journal of Sound and Vibration</i> , 2019, 451, 99-119.	3.9	37
23	Nonlinear energy harvesting based on a modified snap-through mechanism. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 167-180.	3.6	32
24	A ring vibration isolator enhanced by a nonlinear energy sink. <i>Journal of Sound and Vibration</i> , 2021, 508, 116201.	3.9	32
25	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
26	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
27	Energy harvesting of a fluid-conveying piezoelectric pipe. <i>Applied Mathematical Modelling</i> , 2022, 107, 165-181.	4.2	21
28	Jump-based estimation for nonlinear stiffness and damping parameters. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 325-335.	2.6	19
29	Hydrogen bio-production through anaerobic microorganism fermentation using kitchen wastes as substrate. <i>Biotechnology Letters</i> , 2009, 31, 1327-1333.	2.2	15
30	A ring vibration isolator enhanced by shape memory pseudoelasticity. <i>Applied Mathematical Modelling</i> , 2021, 100, 1-15.	4.2	12
31	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
32	An investigation into the isolation performance of mono-and bi-stable systems. <i>Journal of Marine Science and Application</i> , 2014, 13, 291-298.	1.7	7
33	Power Flow in a Two-Stage Nonlinear Vibration Isolation System with High-Static-Low-Dynamic Stiffness. <i>Shock and Vibration</i> , 2018, 2018, 1-13.	0.6	5
34	Analysis and suppression of a self-excitation vibration via internal stiffness and damping nonlinearity. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401774402.	1.6	4
35	The Characteristics of Vibration Isolation System with Damping and Stiffness Geometrically Nonlinear. <i>Journal of Physics: Conference Series</i> , 2016, 744, 012115.	0.4	2
36	Comparison of Linear and Nonlinear Damping Effects on a Ring Vibration Isolator. , 2020, , 13-22.		1

#	ARTICLE	IF	CITATIONS
37	Broadband vibratory energy harvesting via bubble shaped response curves. Journal of Physics: Conference Series, 2016, 744, 012076.	0.4	0