

Weiyang Qin

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,250
citations

430874

18
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

993
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable piezoelectric energy harvesters and self-powered sensors for wearable and implantable devices. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112569.	10.1	225
2	Enhancing ability of harvesting energy from random vibration by decreasing the potential barrier of bistable harvester. <i>Mechanical Systems and Signal Processing</i> , 2017, 85, 71-81.	8.0	129
3	Nonlinear vibration energy harvesting and vibration suppression technologies: Designs, analysis, and applications. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	95
4	Improving energy harvesting from random excitation by nonlinear flexible bi-stable energy harvester with a variable potential energy function. <i>Mechanical Systems and Signal Processing</i> , 2019, 115, 162-172.	8.0	86
5	Transfer Printing and its Applications in Flexible Electronic Devices. <i>Nanomaterials</i> , 2019, 9, 283.	4.1	78
6	Energy harvesting by dynamic instability and internal resonance for piezoelectric beam. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	69
7	Scavenging wind energy by a Y-shaped bi-stable energy harvester with curved wings. <i>Energy</i> , 2018, 153, 400-412.	8.8	67
8	Improve efficiency of harvesting random energy by snap-through in a quad-stable harvester. <i>Sensors and Actuators A: Physical</i> , 2016, 243, 151-158.	4.1	62
9	Magnetically coupled dual-beam energy harvester: Benefit and trade-off. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1216-1235.	2.5	53
10	Scavenging wind energy by a dynamic-stable flutter energy harvester with rectangular wing. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	52
11	Improving efficiency of energy harvesting by a novel penta-stable configuration. <i>Sensors and Actuators A: Physical</i> , 2017, 265, 297-305.	4.1	51
12	Obtaining high-energy responses of nonlinear piezoelectric energy harvester by voltage impulse perturbations. <i>EPJ Applied Physics</i> , 2017, 79, 20902.	0.7	41
13	Dynamic response analysis of an overhung rotor with interval uncertainties. <i>Nonlinear Dynamics</i> , 2017, 89, 2115-2124.	5.2	35
14	Dynamics and coherence resonance of a laminated piezoelectric beam for energy harvesting. <i>Nonlinear Dynamics</i> , 2015, 81, 1751-1757.	5.2	30
15	Improving energy harvesting by stochastic resonance in a laminated bistable beam. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	28
16	Improving energy harvesting in a tri-stable piezomagnetoelastic beam with two attractive external magnets subjected to random excitation. <i>Archive of Applied Mechanics</i> , 2017, 87, 45-57.	2.2	26
17	Grazing Bifurcation in the Response of Cracked Jeffcott Rotor. <i>Nonlinear Dynamics</i> , 2004, 35, 147-157.	5.2	24
18	Theoretical and experimental studies on the characteristics of a tri-stable piezoelectric harvester. <i>Archive of Applied Mechanics</i> , 2017, 87, 1541-1554.	2.2	23

#	ARTICLE	IF	CITATIONS
19	Energy harvesting from coherent resonance of horizontal vibration of beam excited by vertical base motion. <i>Applied Physics Letters</i> , 2014, 105, 113901.	3.3	18
20	Investigation on the transient response of a speed-varying rotor with sudden unbalance and its application in the unbalance identification. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020, 39, 1065-1086.	2.9	12
21	Distributed parameter model and experimental validation of a compressive-mode energy harvester under harmonic excitations. <i>AIP Advances</i> , 2016, 6, 085310.	1.3	8
22	Coherence resonance of a magnet-induced buckled piezoelectric energy harvester under stochastic parametric excitation. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1620-1631.	2.5	7
23	Investigation of snap-through and homoclinic bifurcation of a magnet-induced buckled energy harvester by the Melnikov method. <i>Chaos</i> , 2016, 26, 123109.	2.5	6
24	Harvesting Variable-Speed Wind Energy with a Dynamic Multi-Stable Configuration. <i>Materials</i> , 2020, 13, 1389.	2.9	5
25	Hybrid vibration energy harvesting based on piezoelectric polyline beams with electret coupling. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 319-329.	2.5	5
26	Mechanical Shunt Resonators-Based Piezoelectric Metamaterial for Elastic Wave Attenuation. <i>Materials</i> , 2022, 15, 891.	2.9	5
27	Harvesting Energy from Bridge Vibration by Piezoelectric Structure with Magnets Tailoring Potential Energy. <i>Materials</i> , 2022, 15, 33.	2.9	4
28	Nonlinear dynamics of a pendulum-beam coupling piezoelectric energy harvesting system. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	3
29	Improve harvesting efficiency of tri-stable energy harvester by tailoring potential energy. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	2
30	Improving Energy Harvesting from Bridge Vibration Excited by Moving Vehicles with a Bi-Stable Harvester. <i>Materials</i> , 2022, 15, 2237.	2.9	1
31	Stability for Discrete Hopfield Neural Networks with Delay. , 2008, , .		0