

Qingjie Cao

List of Publications by Year in descending order

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51
papers

2,000
citations

257357

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254106

43
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54
all docs

54
docs citations

54
times ranked

717
citing authors

#	ARTICLE	IF	CITATIONS
1	Archetypal oscillator for smooth and discontinuous dynamics. <i>Physical Review E</i> , 2006, 74, 046218.	0.8	205
2	The isolation characteristics of an archetypal dynamical model with stable-quasi-zero-stiffness. <i>Journal of Sound and Vibration</i> , 2015, 340, 61-79.	2.1	132
3	Piecewise linear approach to an archetypal oscillator for smooth and discontinuous dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 635-652.	1.6	121
4	Nonlinear dynamics of the quasi-zero-stiffness SD oscillator based upon the local and global bifurcation analyses. <i>Nonlinear Dynamics</i> , 2017, 87, 987-1014.	2.7	98
5	The codimension-two bifurcation for the recent proposed SD oscillator. <i>Nonlinear Dynamics</i> , 2010, 59, 19-27.	2.7	94
6	The limit case response of the archetypal oscillator for smooth and discontinuous dynamics. <i>International Journal of Non-Linear Mechanics</i> , 2008, 43, 462-473.	1.4	93
7	Research on dynamics and fault mechanism of spur gear pair with spalling defect. <i>Journal of Sound and Vibration</i> , 2012, 331, 2097-2109.	2.1	89
8	A novel nonlinear mechanical oscillator and its application in vibration isolation and energy harvesting. <i>Mechanical Systems and Signal Processing</i> , 2021, 155, 107636.	4.4	82
9	Bifurcations and hysteresis of varying compliance vibrations in the primary parametric resonance for a ball bearing. <i>Journal of Sound and Vibration</i> , 2015, 350, 171-184.	2.1	76
10	Dynamics and performance evaluation of a novel tristable hybrid energy harvester for ultra-low level vibration resources. <i>International Journal of Mechanical Sciences</i> , 2019, 156, 123-136.	3.6	75
11	Two-sided damping constraint control strategy for high-performance vibration isolation and end-stop impact protection. <i>Nonlinear Dynamics</i> , 2016, 86, 2129-2144.	2.7	58
12	Delay-controlled primary and stochastic resonances of the SD oscillator with stiffness nonlinearities. <i>Mechanical Systems and Signal Processing</i> , 2018, 103, 216-235.	4.4	57
13	A multi-directional multi-stable device: Modeling, experiment verification and applications. <i>Mechanical Systems and Signal Processing</i> , 2021, 146, 106986.	4.4	52
14	Frequency analysis of rotating truncated conical shells using the Haar wavelet method. <i>Applied Mathematical Modelling</i> , 2018, 57, 603-613.	2.2	48
15	A two degree of freedom stable quasi-zero stiffness prototype and its applications in aseismic engineering. <i>Science China Technological Sciences</i> , 2020, 63, 496-505.	2.0	42
16	A novel smooth and discontinuous oscillator with strong irrational nonlinearities. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 1832-1843.	2.0	41
17	Dynamics and energy generation of a hybrid energy harvester under colored noise excitations. <i>Mechanical Systems and Signal Processing</i> , 2019, 121, 745-766.	4.4	41
18	A novel model of dipteran flight mechanism. <i>International Journal of Dynamics and Control</i> , 2013, 1, 1-11.	1.5	35

#	ARTICLE	IF	CITATIONS
19	Response analysis of the archetypal smooth and discontinuous oscillator for vibration energy harvesting. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 507, 358-373.	1.2	34
20	Bursting oscillations in an isolation system with quasi-zero stiffness. <i>Mechanical Systems and Signal Processing</i> , 2021, 161, 107916.	4.4	31
21	Bifurcation and dynamic response analysis of rotating blade excited by upstream vortices. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016, 37, 1251-1274.	1.9	29
22	Novel multi-stable energy harvester by exploring the benefits of geometric nonlinearity. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 033405.	0.9	29
23	Dynamics and high-efficiency of a novel multi-stable energy harvesting system. <i>Chaos, Solitons and Fractals</i> , 2020, 131, 109516.	2.5	29
24	Nonlinear Dynamics of a Smooth and Discontinuous Oscillator with Multiple Stability. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015, 25, 1530038.	0.7	26
25	Chaotic thresholds for the piecewise linear discontinuous system with multiple well potentials. <i>International Journal of Non-Linear Mechanics</i> , 2015, 70, 145-152.	1.4	26
26	The recent advances for an archetypal smooth and discontinuous oscillator. <i>International Journal of Mechanical Sciences</i> , 2022, 214, 106904.	3.6	23
27	Parametric instability analysis of truncated conical shells using the Haar wavelet method. <i>Mechanical Systems and Signal Processing</i> , 2018, 105, 200-213.	4.4	22
28	Parametric instability of rotating cylindrical shells subjected to periodic axial loads. <i>International Journal of Mechanical Sciences</i> , 2018, 146-147, 1-8.	3.6	22
29	Time delay improves beneficial performance of a novel hybrid energy harvester. <i>Nonlinear Dynamics</i> , 2019, 96, 1511-1530.	2.7	22
30	Global bifurcations of a rotating pendulum with irrational nonlinearity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 36, 431-445.	1.7	20
31	Bifurcation analysis for vibrations of a turbine blade excited by air flows. <i>Science China Technological Sciences</i> , 2016, 59, 1217-1231.	2.0	19
32	Noise-induced phenomena in a versatile class of prototype dynamical system with time delay. <i>Nonlinear Dynamics</i> , 2018, 92, 511-529.	2.7	19
33	Wada basin dynamics of a shallow arch oscillator with more than 20 coexisting low-period periodic attractors. <i>International Journal of Non-Linear Mechanics</i> , 2014, 58, 151-161.	1.4	18
34	Nonlinear transition dynamics in a time-delayed vibration isolator under combined harmonic and stochastic excitations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 043202.	0.9	18
35	Stick-slip vibrations of a self-excited SD oscillator with Coulomb friction. <i>Nonlinear Dynamics</i> , 2020, 102, 1419-1435.	2.7	18
36	Free vibration of truncated conical shells with elastic boundary constraints and added mass. <i>International Journal of Mechanical Sciences</i> , 2019, 155, 286-294.	3.6	17

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37	The complicated bifurcation of an archetypal self-excited SD oscillator with dry friction. <i>Nonlinear Dynamics</i> , 2017, 89, 91-106.	2.7	16
38	A three-degree-of-freedom model for vortex-induced vibrations of turbine blades. <i>Meccanica</i> , 2016, 51, 2607-2628.	1.2	15
39	Noise and delay-enhanced stability in a nonlinear isolation system. <i>International Journal of Non-Linear Mechanics</i> , 2019, 110, 81-93.	1.4	15
40	A fully nonlinear oscillator with contact and friction. <i>Nonlinear Dynamics</i> , 2012, 70, 511-522.	2.7	13
41	A parametrically excited pendulum with irrational nonlinearity. <i>International Journal of Non-Linear Mechanics</i> , 2017, 88, 122-134.	1.4	12
42	Rotating pendulum with smooth and discontinuous dynamics. <i>International Journal of Mechanical Sciences</i> , 2017, 127, 91-102.	3.6	12
43	A rotating disk linked by a pair of springs. <i>Nonlinear Dynamics</i> , 2015, 79, 1275-1291.	2.7	9
44	Modeling and analysis of a novel multi-directional micro-vibration isolator with spring suspension struts. <i>Archive of Applied Mechanics</i> , 2022, 92, 801-819.	1.2	9
45	Free vibration analysis of truncated circular conical shells with variable thickness using the Haar wavelet method. <i>Journal of Vibroengineering</i> , 2016, 18, 5291-5305.	0.5	8
46	Approximations of Parabolic Equations at the Vicinity of Hyperbolic Equilibrium Point. <i>Numerical Functional Analysis and Optimization</i> , 2014, 35, 1287-1307.	0.6	7
47	Dynamic characteristics analysis for a quasi-zero-stiffness system coupled with mechanical disturbance. <i>Archive of Applied Mechanics</i> , 2021, 91, 1449-1467.	1.2	5
48	Dynamic Analysis of a Loading-Adapting Quasi-Zero-Stiffness Isolation System Based on the Rolling Lobe Air-Springs. <i>Journal of Vibration Engineering and Technologies</i> , 2022, 10, 3207-3225.	1.3	5
49	An Archetypal Vibration Isolator with Quasi-zero Stiffness in Multiple Directions. <i>Journal of Nonlinear Mathematical Physics</i> , 2022, 29, 190-203.	0.8	3
50	Multiple Bifurcations of a Cylindrical Dynamical System. <i>Journal of Theoretical and Applied Mechanics (Bulgaria)</i> , 2016, 46, 33-52.	0.6	2
51	Dynamic Analysis of a Multiple-Span Euler-Bernoulli Beam Supported by Pneumatic Quasi-zero-stiffness System. <i>Journal of Vibration Engineering and Technologies</i> , 0, , 1.	1.3	0