

Ronghua Huan

List of Publications by Year in descending order

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papers

379
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759055

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all docs

51
docs citations

51
times ranked

202
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency locking in the internal resonance of two electrostatically coupled micro-resonators with frequency ratio 1:3. <i>Mechanical Systems and Signal Processing</i> , 2021, 146, 106981.	4.4	40
2	Synchronization of electrically coupled micromechanical oscillators with a frequency ratio of 3:1. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	37
3	Single-electron detection utilizing coupled nonlinear microresonators. <i>Microsystems and Nanoengineering</i> , 2020, 6, 78.	3.4	26
4	Multi-objective optimal design of active vibration absorber with delayed feedback. <i>Journal of Sound and Vibration</i> , 2015, 339, 56-64.	2.1	21
5	Frequency stability improvement for piezoresistive micromechanical oscillators via synchronization. <i>AIP Advances</i> , 2017, 7, .	0.6	19
6	Nonlinear coupling of flexural mode and extensional bulk mode in micromechanical resonators. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	18
7	Effects of phase delay on synchronization in a nonlinear micromechanical oscillator. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	18
8	Frequency latching in nonlinear micromechanical resonators. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	17
9	Stochastic microvibration response analysis of a magnetorheological viscoelastomer based sandwich beam under localized magnetic fields. <i>Applied Mathematical Modelling</i> , 2015, 39, 5559-5566.	2.2	14
10	Stationary Response of a Class of Nonlinear Stochastic Systems Undergoing Markovian Jumps. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	1.1	14
11	Anomalous amplitude-frequency dependence in a micromechanical resonator under synchronization. <i>Nonlinear Dynamics</i> , 2021, 103, 467-479.	2.7	13
12	Effect of nonlinearity and axial force on frequency drift of a T-shaped tuning fork micro-resonator. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 125012.	1.5	12
13	Mode interaction induced response flattening in two mechanically coupled micro-resonators. <i>Mechanical Systems and Signal Processing</i> , 2022, 177, 109164.	4.4	10
14	Asymmetric phononic frequency comb in a rhombic micromechanical resonator. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	9
15	Asymptotic Stability With Probability One of Random-Time-Delay-Controlled Quasi-Integrable Hamiltonian Systems. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	1.1	8
16	Frequency comb in 1:3 internal resonance of coupled micromechanical resonators. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
17	Phase switch in the stochastic response of a micromechanical beam resonator. <i>Acta Mechanica</i> , 2018, 229, 2177-2187.	1.1	7
18	A MEMS accelerometer based on synchronizing DETF oscillators. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
19	Reliability of a class of nonlinear systems under switching random excitations. <i>Nonlinear Dynamics</i> , 2020, 99, 2083-2094.	2.7	6
20	Amplitude region for triggering frequency locking in internal resonance response of two nonlinearly coupled micro-resonators. <i>International Journal of Non-Linear Mechanics</i> , 2021, 130, 103673.	1.4	6
21	Dynamics and response reshaping of nonlinear predator-prey system undergoing random abrupt disturbances. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 1123-1134.	1.9	6
22	Prediction and Suppression of Vortex-Induced Vibration for Steel Tubes with Bolted Joints in Tubular Transmission Towers. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	5
23	Optimal control strategies for stochastically excited quasi partially integrable Hamiltonian systems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2007, 23, 311-319.	1.5	4
24	Stochastic optimal bounded control of MDOF quasi nonintegrable-Hamiltonian systems with actuator saturation. <i>Archive of Applied Mechanics</i> , 2009, 79, 157-168.	1.2	4
25	Optimal Bounded Control for Stationary Response of Strongly Nonlinear Oscillators under Combined Harmonic and Wide-Band Noise Excitations. <i>Mathematical Problems in Engineering</i> , 2011, 2011, 1-21.	0.6	4
26	Optimal Vibration Control of a Class of Nonlinear Stochastic Systems with Markovian Jump. <i>Shock and Vibration</i> , 2016, 2016, 1-9.	0.3	4
27	Micromechanical vibration absorber for frequency stability improvement of DETF oscillator. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 045005.	1.5	4
28	A novel method for evaluating the averaged drift and diffusion coefficients of high DOF quasi-non-integrable Hamiltonian systems. <i>Nonlinear Dynamics</i> , 2021, 106, 2975-2989.	2.7	4
29	Stochastic optimal vibration control of partially observable nonlinear quasi hamiltonian systems with actuator saturation. <i>Acta Mechanica Solida Sinica</i> , 2009, 22, 143-151.	1.0	3
30	The Effect of High-Frequency Parametric Excitation on a Stochastically Driven Pantograph-Catenary System. <i>Shock and Vibration</i> , 2014, 2014, 1-8.	0.3	3
31	Vertical dynamics of a pantograph carbon-strip suspension under stochastic contact-force excitation. <i>Nonlinear Dynamics</i> , 2014, 76, 765-776.	2.7	3
32	Reshaping of the probability density function of nonlinear stochastic systems against abrupt changes. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 532-539.	1.5	3
33	Phase-delay induced variation of synchronization bandwidth and frequency stability in a micromechanical oscillator. <i>Nonlinear Dynamics</i> , 2021, 105, 2981-2994.	2.7	3
34	Response and reliability analysis of random time-delay controlled systems undergo wide-band random excitations. <i>Probabilistic Engineering Mechanics</i> , 2022, 67, 103191.	1.3	3
35	Nonlinear stochastic optimal bounded control of hysteretic systems with actuator saturation. <i>Journal of Zhejiang University: Science A</i> , 2008, 9, 351-357.	1.3	2
36	Stationary response of stochastically excited nonlinear systems with continuous-time Markov jump. <i>Journal of Zhejiang University: Science A</i> , 2017, 18, 83-91.	1.3	2

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37	Dynamics of Pantograph-Catenary System Considering Local Singularities of Contact Wire with Critical Wavelengths. Lecture Notes in Electrical Engineering, 2012, , 319-333.	0.3	2
38	MEMS based ultra-high order frequency multiplication utilizing superharmonic synchronization effect. Sensors and Actuators A: Physical, 2021, 332, 113152.	2.0	2
39	Novel control strategy of force-balance accelerometers for measurement error minimization. International Journal of Dynamics and Control, 2022, 10, 1451-1460.	1.5	2
40	Asymptotic Stability of Delay-Controlled Nonlinear Stochastic Systems with Actuator Failures. Shock and Vibration, 2017, 2017, 1-8.	0.3	1
41	Probability-Weighted Optimal Control for Nonlinear Stochastic Vibrating Systems with Random Time Delay. Shock and Vibration, 2018, 2018, 1-8.	0.3	1
42	Reliability of nonlinear stochastic controlled systems considering the dynamics of sensors and actuators. JVC/Journal of Vibration and Control, 2022, 28, 2052-2060.	1.5	1
43	Nonlinear Stochastic Optimal Control Using Piezoelectric Stack Inertial Actuator. Shock and Vibration, 2020, 2020, 1-7.	0.3	1
44	Amplifying charge-sensing in micromechanical oscillators based on synchronization. Sensors and Actuators A: Physical, 2022, 339, 113517.	2.0	1
45	Feedback maximization of reliability of MDOF quasi integrable-Hamiltonian systems under combined harmonic and white noise excitations. Journal of Zhejiang University: Science A, 2009, 10, 1245-1251.	1.3	0
46	Frequency stability of micromechanical beam oscillator under subharmonic synchronization. , 2017, , .		0
47	Asymptotic Stability of Controlled Nonlinear Stochastic Systems Considering the Dynamics of Sensors and Actuators. International Journal of Structural Stability and Dynamics, 2021, 21, .	1.5	0
48	Generation of Two Correlated Stationary Gaussian Processes. Mathematics, 2021, 9, 2687.	1.1	0
49	Feedback control of nonlinear stochastic dynamic systems for accurately tracking a specified stationary probability density function. JVC/Journal of Vibration and Control, 0, , 107754632110689.	1.5	0