

Gaetan Kerschen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

2,487
citations

19
h-index

38
g-index

38
ext. papers

2,900
ext. citations

3.1
avg, IF

4.69
L-index

#	Paper	IF	Citations
33	Bayesian model updating and class selection of a wing-engine structure with nonlinear connections using nonlinear normal modes. <i>Mechanical Systems and Signal Processing</i> , 2022 , 165, 108337	7.8	2
32	Characterizing Fundamental, Superharmonic, and Subharmonic Resonances Using Phase Resonance Nonlinear Modes 2022 , 661-671		
31	Phase resonance nonlinear modes of mechanical systems. <i>Journal of Sound and Vibration</i> , 2021 , 511, 116355	3.9	9
30	Bayesian model updating of nonlinear systems using nonlinear normal modes. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2258	4.5	20
29	Finite element model reduction for space thermal analysis. <i>Finite Elements in Analysis and Design</i> , 2017 , 127, 6-15	2.2	6
28	Flutter Control of a Two-Degrees-of-Freedom Airfoil Using a Nonlinear Tuned Vibration Absorber. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	17
27	Experimental Passive Flutter Suppression Using a Linear Tuned Vibration Absorber. <i>AIAA Journal</i> , 2017 , 55, 1707-1722	2.1	14
26	Bridging the Gap Between Nonlinear Normal Modes and Modal Derivatives. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 349-361	0.3	4
25	Obtaining Nonlinear Frequency Responses from Broadband Testing. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 219-227	0.3	0
24	Nonparametric Subspace Identification of Nonlinear Structures - Application to a Spacecraft 2013 ,		2
23	Proper Orthogonal Decomposition for Nonlinear Radiative Heat Transfer Problems 2011 ,		1
22	Detection and Quantification of Nonlinear Dynamic Behaviors in Space Structures. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 109-117	0.3	
21	Enhancing the Robustness of Aeroelastic Instability Suppression Using Multi-Degree-of-Freedom Nonlinear Energy Sinks. <i>AIAA Journal</i> , 2008 , 46, 1371-1394	2.1	45
20	Impulsive periodic and quasi-periodic orbits of coupled oscillators with essential stiffness nonlinearity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008 , 13, 959-978	3.7	22
19	Efficiency of targeted energy transfers in coupled nonlinear oscillators associated with 1:1 resonance captures: Part I. <i>Journal of Sound and Vibration</i> , 2008 , 311, 1228-1248	3.9	74
18	Suppression Aeroelastic Instability Using Broadband Passive Targeted Energy Transfers, Part 1: Theory. <i>AIAA Journal</i> , 2007 , 45, 693-711	2.1	145
17	Broadband passive targeted energy pumping from a linear dispersive rod to a lightweight essentially non-linear end attachment. <i>International Journal of Non-Linear Mechanics</i> , 2007 , 42, 773-788	2.8	29

16	Experimental demonstration of transient resonance capture in a system of two coupled oscillators with essential stiffness nonlinearity. <i>Journal of Sound and Vibration</i> , 2007 , 299, 822-838	3.9	63
15	Complex dynamics and targeted energy transfer in linear oscillators coupled to multi-degree-of-freedom essentially nonlinear attachments. <i>Nonlinear Dynamics</i> , 2007 , 48, 285-318	5	39
14	Suppressing Aeroelastic Instability Using Broadband Passive Targeted Energy Transfers, Part 2: Experiments. <i>AIAA Journal</i> , 2007 , 45, 2391-2400	2.1	112
13	Suppression of Limit Cycle Oscillations with a Nonlinear Energy Sink: Experimental Results 2006 ,		3
12	Past, present and future of nonlinear system identification in structural dynamics. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 505-592	7.8	729
11	Theoretical and Experimental Study of Multimodal Targeted Energy Transfer in a System of Coupled Oscillators. <i>Nonlinear Dynamics</i> , 2006 , 47, 285-309	5	66
10	Irreversible Passive Energy Transfer in Coupled Oscillators with Essential Nonlinearity. <i>SIAM Journal on Applied Mathematics</i> , 2005 , 66, 648-679	1.8	128
9	Sensor validation using principal component analysis. <i>Smart Materials and Structures</i> , 2005 , 14, 36-42	3.4	96
8	Transient dynamics of a dispersive elastic wave guide weakly coupled to an essentially nonlinear end attachment. <i>Wave Motion</i> , 2005 , 41, 109-132	1.8	15
7	Complicated dynamics of a linear oscillator with a light, essentially nonlinear attachment. <i>Physica D: Nonlinear Phenomena</i> , 2005 , 204, 41-69	3.3	147
6	Generation of Accurate Finite Element Models of Nonlinear Systems Application to an Aeroplane-Like Structure. <i>Nonlinear Dynamics</i> , 2005 , 39, 129-142	5	14
5	The Method of Proper Orthogonal Decomposition for Dynamical Characterization and Order Reduction of Mechanical Systems: An Overview. <i>Nonlinear Dynamics</i> , 2005 , 41, 147-169	5	530
4	Energy Transfers in a System of Two Coupled Oscillators with Essential Nonlinearity: 1:1 Resonance Manifold and Transient Bridging Orbits. <i>Nonlinear Dynamics</i> , 2005 , 42, 283-303	5	42
3	Experimental investigation of targeted energy transfers in strongly and nonlinearly coupled oscillators. <i>Journal of the Acoustical Society of America</i> , 2005 , 118, 791-799	2.2	68
2	Feature extraction using auto-associative neural networks. <i>Smart Materials and Structures</i> , 2004 , 13, 211-219	3.4	21
1	A Frequency Domain Versus a Time Domain Identification Technique for Nonlinear Parameters Applied to Wire Rope Isolators. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2001 , 123, 645-650	1.6	24