

Alexander F Vakakis

List of Publications by Year in descending order

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431
papers

15,939
citations

22099

59
h-index

26548

107
g-index

447
all docs

447
docs citations

447
times ranked

4117
citing authors

#	ARTICLE	IF	CITATIONS
1	Past, present and future of nonlinear system identification in structural dynamics. <i>Mechanical Systems and Signal Processing</i> , 2006, 20, 505-592.	4.4	912
2	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.	2.7	706
3	Nonlinear normal modes, Part I: A useful framework for the structural dynamicist. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 170-194.	4.4	571
4	Energy Pumping in Nonlinear Mechanical Oscillators: Part II—Resonance Capture. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2001, 68, 42-48.	1.1	525
5	Energy Pumping in Nonlinear Mechanical Oscillators: Part I—Dynamics of the Underlying Hamiltonian Systems. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2001, 68, 34-41.	1.1	502
6	Inducing Passive Nonlinear Energy Sinks in Vibrating Systems. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2001, 123, 324-332.	1.0	338
7	NON-LINEAR NORMAL MODES (NNMs) AND THEIR APPLICATIONS IN VIBRATION THEORY: AN OVERVIEW. <i>Mechanical Systems and Signal Processing</i> , 1997, 11, 3-22.	4.4	228
8	Experimental study of non-linear energy pumping occurring at a single fast frequency. <i>International Journal of Non-Linear Mechanics</i> , 2005, 40, 891-899.	1.4	211
9	Simulation of dynamics of beam structures with bolted joints using adjusted Iwan beam elements. <i>Journal of Sound and Vibration</i> , 2004, 273, 249-276.	2.1	210
10	Complicated dynamics of a linear oscillator with a light, essentially nonlinear attachment. <i>Physica D: Nonlinear Phenomena</i> , 2005, 204, 41-69.	1.3	205
11	Targeted energy transfers in vibro-impact oscillators for seismic mitigation. <i>Nonlinear Dynamics</i> , 2007, 50, 651-677.	2.7	201
12	Dynamics of linear discrete systems connected to local, essentially non-linear attachments. <i>Journal of Sound and Vibration</i> , 2003, 264, 559-577.	2.1	197
13	PROPER ORTHOGONAL DECOMPOSITION (POD) OF A CLASS OF VIBROIMPACT OSCILLATIONS. <i>Journal of Sound and Vibration</i> , 2001, 240, 859-889.	2.1	180
14	Suppression Aeroelastic Instability Using Broadband Passive Targeted Energy Transfers, Part 1: Theory. <i>AIAA Journal</i> , 2007, 45, 693-711.	1.5	179
15	Breaking Lorentz reciprocity to overcome the time-bandwidth limit in physics and engineering. <i>Science</i> , 2017, 356, 1260-1264.	6.0	174
16	Title is missing!. <i>Nonlinear Dynamics</i> , 2003, 33, 87-102.	2.7	160
17	Irreversible Passive Energy Transfer in Coupled Oscillators with Essential Nonlinearity. <i>SIAM Journal on Applied Mathematics</i> , 2005, 66, 648-679.	0.8	155
18	Periodic orbits, damped transitions and targeted energy transfers in oscillators with vibro-impact attachments. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1868-1896.	1.3	142

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19	Suppressing Aeroelastic Instability Using Broadband Passive Targeted Energy Transfers, Part 2: Experiments. <i>AIAA Journal</i> , 2007, 45, 2391-2400.	1.5	141
20	Numerical and experimental investigation of a highly effective single-sided vibro-impact non-linear energy sink for shock mitigation. <i>International Journal of Non-Linear Mechanics</i> , 2013, 52, 96-109.	1.4	133
21	Resonance captures and targeted energy transfers in an inertially-coupled rotational nonlinear energy sink. <i>Nonlinear Dynamics</i> , 2012, 69, 1693-1704.	2.7	125
22	Dynamics of a linear beam with an attached local nonlinear energy sink. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007, 12, 643-651.	1.7	120
23	Application of broadband nonlinear targeted energy transfers for seismic mitigation of a shear frame: Experimental results. <i>Journal of Sound and Vibration</i> , 2008, 313, 57-76.	2.1	120
24	New family of solitary waves in granular dimer chains with no precompression. <i>Physical Review E</i> , 2011, 83, 036606.	0.8	105
25	Efficiency of targeted energy transfers in coupled nonlinear oscillators associated with 1:1 resonance captures: Part II, analytical study. <i>Journal of Sound and Vibration</i> , 2009, 325, 297-320.	2.1	99
26	Comparing Linear and Essentially Nonlinear Vibration-Based Energy Harvesting. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2011, 133, .	1.0	99
27	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.	2.1	98
28	Dynamics of an Eccentric Rotational Nonlinear Energy Sink. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, .	1.1	98
29	Effective Stiffening and Damping Enhancement of Structures With Strongly Nonlinear Local Attachments. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2012, 134, .	1.0	98
30	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.	0.5	89
31	Traveling waves and localized modes in one-dimensional homogeneous granular chains with no precompression. <i>Physical Review E</i> , 2010, 82, 026603.	0.8	89
32	Passive damping enhancement of a two-degree-of-freedom system through a strongly nonlinear two-degree-of-freedom attachment. <i>Journal of Sound and Vibration</i> , 2012, 331, 5393-5407.	2.1	89
33	Dynamics of a Linear Oscillator Coupled to a Bistable Light Attachment: Analytical Study. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	1.1	88
34	Normal modes and global dynamics of a two-degree-of-freedom non-linear system. I. Low energies. <i>International Journal of Non-Linear Mechanics</i> , 1992, 27, 861-874.	1.4	87
35	Theoretical and Experimental Study of Multimodal Targeted Energy Transfer in a System of Coupled Oscillators. <i>Nonlinear Dynamics</i> , 2006, 47, 285-309.	2.7	87
36	Nonlinear Vibrations and Multiple Resonances of Fluid-Filled, Circular Shells, Part 1: Equations of Motion and Numerical Results. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2000, 122, 346-354.	1.0	86

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37	Experimental study of non-linear effects in a typical shear lap joint configuration. <i>Journal of Sound and Vibration</i> , 2004, 277, 327-351.	2.1	83
38	Large-scale experimental evaluation and numerical simulation of a system of nonlinear energy sinks for seismic mitigation. <i>Engineering Structures</i> , 2014, 77, 34-48.	2.6	83
39	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.	2.1	81
40	Enhanced passive targeted energy transfer in strongly nonlinear mechanical oscillators. <i>Journal of Sound and Vibration</i> , 2011, 330, 1-8.	2.1	81
41	Asymptotic Analysis of Passive Nonlinear Suppression of Aeroelastic Instabilities of a Rigid Wing in Subsonic Flow. <i>SIAM Journal on Applied Mathematics</i> , 2010, 70, 1655-1677.	0.8	80
42	Non-similar normal oscillations in a strongly non-linear discrete system. <i>Journal of Sound and Vibration</i> , 1992, 158, 341-361.	2.1	76
43	Using passive nonlinear targeted energy transfer to stabilize drill-string systems. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 148-169.	4.4	76
44	Vibration reduction in unbalanced hollow rotor systems with nonlinear energy sinks. <i>Nonlinear Dynamics</i> , 2015, 79, 527-538.	2.7	76
45	Nonlinear normal modes and band zones in granular chains with no pre-compression. <i>Nonlinear Dynamics</i> , 2011, 63, 359-385.	2.7	75
46	Nonlinear system identification of frictional effects in a beam with a bolted joint connection. <i>Mechanical Systems and Signal Processing</i> , 2013, 39, 245-264.	4.4	74
47	Toward a Fundamental Understanding of the Hilbert-Huang Transform in Nonlinear Structural Dynamics. <i>JVC/Journal of Vibration and Control</i> , 2008, 14, 77-105.	1.5	73
48	Suppression of limit cycle oscillations in the van der Pol oscillator by means of passive non-linear energy sinks. <i>Structural Control and Health Monitoring</i> , 2006, 13, 41-75.	1.9	72
49	Numerical and experimental investigations of a rotating nonlinear energy sink. <i>Meccanica</i> , 2017, 52, 763-779.	1.2	72
50	Mode Localization in a Class of Multidegree-of-Freedom Nonlinear Systems with Cyclic Symmetry. <i>SIAM Journal on Applied Mathematics</i> , 1993, 53, 265-282.	0.8	71
51	Enhancing the Robustness of Aeroelastic Instability Suppression Using Multi-Degree-of-Freedom Nonlinear Energy Sinks. <i>AIAA Journal</i> , 2008, 46, 1371-1394.	1.5	70
52	Response attenuation in a large-scale structure subjected to blast excitation utilizing a system of essentially nonlinear vibration absorbers. <i>Journal of Sound and Vibration</i> , 2017, 389, 52-72.	2.1	68
53	A Multiple-Scales Analysis of Nonlinear, Localized Modes in a Cyclic Periodic System. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1993, 60, 388-397.	1.1	67
54	Application of broadband nonlinear targeted energy transfers for seismic mitigation of a shear frame: Computational results. <i>Journal of Sound and Vibration</i> , 2010, 329, 2973-2994.	2.1	67

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55	An Energy-Based Formulation for Computing Nonlinear Normal Modes in Undamped Continuous Systems. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1994, 116, 332-340.	1.0	66
56	Tunable, Broadband Nonlinear Nanomechanical Resonator. <i>Nano Letters</i> , 2010, 10, 1793-1798.	4.5	66
57	An "Interesting" Strange Attractor in the Dynamics of a Hopping Robot. <i>International Journal of Robotics Research</i> , 1991, 10, 606-618.	5.8	65
58	Nonlinear wave transmission in a monocoupled elastic periodic system. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 1534-1546.	0.5	65
59	Physics-Based Foundation for Empirical Mode Decomposition. <i>AIAA Journal</i> , 2009, 47, 2938-2963.	1.5	65
60	Isolated Resonance Captures and Resonance Capture Cascades Leading to Single- or Multi-Mode Passive Energy Pumping in Damped Coupled Oscillators. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2004, 126, 235-244.	1.0	64
61	Experimental Testing and Numerical Simulation of a Six-Story Structure Incorporating Two-Degree-of-Freedom Nonlinear Energy Sink. <i>Journal of Structural Engineering</i> , 2014, 140, .	1.7	62
62	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.	2.7	60
63	A study on torsional vibration attenuation in automotive drivetrains using absorbers with smooth and non-smooth nonlinearities. <i>Applied Mathematical Modelling</i> , 2017, 46, 674-690.	2.2	59
64	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.	2.7	58
65	Dynamic instabilities in coupled oscillators induced by geometrically nonlinear damping. <i>Nonlinear Dynamics</i> , 2012, 67, 807-827.	2.7	58
66	Wavelet-bounded empirical mode decomposition for measured time series analysis. <i>Mechanical Systems and Signal Processing</i> , 2018, 99, 14-29.	4.4	58
67	Nonlinear targeted energy transfer: state of the art and new perspectives. <i>Nonlinear Dynamics</i> , 2022, 108, 711-741.	2.7	58
68	Dynamics of a nonlinear periodic structure with cyclic symmetry. <i>Acta Mechanica</i> , 1992, 95, 197-226.	1.1	57
69	Normal modes and global dynamics of a two-degree-of-freedom non-linear system. High energies. <i>International Journal of Non-Linear Mechanics</i> , 1992, 27, 875-888.	1.4	56
70	Experimental system identification of the dynamics of a vibro-impact beam with a view towards structural health monitoring and damage detection. <i>Mechanical Systems and Signal Processing</i> , 2014, 46, 91-113.	4.4	56
71	Nonlinear hardening and softening resonances in micromechanical cantilever-nanotube systems originated from nanoscale geometric nonlinearities. <i>International Journal of Solids and Structures</i> , 2012, 49, 2059-2065.	1.3	55
72	A new way to introduce geometrically nonlinear stiffness and damping with an application to vibration suppression. <i>Nonlinear Dynamics</i> , 2019, 96, 1819-1845.	2.7	55

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73	Forced localization in a periodic chain of non-linear oscillators. <i>International Journal of Non-Linear Mechanics</i> , 1994, 29, 429-447.	1.4	53
74	Strongly Nonlinear Beat Phenomena and Energy Exchanges in Weakly Coupled Granular Chains on Elastic Foundations. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 337-361.	0.8	52
75	High-frequency vibration energy harvesting from impulsive excitation utilizing intentional dynamic instability caused by strong nonlinearity. <i>Journal of Sound and Vibration</i> , 2016, 370, 259-279.	2.1	51
76	Non-linear dynamics of a system of coupled oscillators with essential stiffness non-linearities. <i>International Journal of Non-Linear Mechanics</i> , 2004, 39, 1079-1091.	1.4	50
77	Targeted energy transfer and modal energy redistribution in automotive drivetrains. <i>Nonlinear Dynamics</i> , 2017, 87, 169-190.	2.7	50
78	Vibration energy harvesting from impulsive excitations via a bistable nonlinear attachment. <i>International Journal of Non-Linear Mechanics</i> , 2017, 94, 84-97.	1.4	49
79	Nonreciprocity in the dynamics of coupled oscillators with nonlinearity, asymmetry, and scale hierarchy. <i>Physical Review E</i> , 2018, 97, 012219.	0.8	49
80	IDENTIFICATION OF BOLTED JOINTS THROUGH LASER VIBROMETRY. <i>Journal of Sound and Vibration</i> , 2001, 246, 441-460.	2.1	48
81	Shock Isolation Through the Use of Nonlinear Energy Sinks. <i>JVC/Journal of Vibration and Control</i> , 2003, 9, 79-93.	1.5	48
82	Passive non-linear targeted energy transfer and its applications to vibration absorption: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2008, 222, 77-134.	0.5	48
83	Vibro-impact attachments as shock absorbers. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2008, 222, 1899-1908.	1.1	48
84	Targeted Energy Transfer Between a Model Flexible Wing and Nonlinear Energy Sink. <i>Journal of Aircraft</i> , 2010, 47, 1918-1931.	1.7	48
85	Rotary-oscillatory nonlinear energy sink of robust performance. <i>International Journal of Non-Linear Mechanics</i> , 2019, 117, 103249.	1.4	48
86	Study of a class of subharmonic motions using a non-smooth temporal transformation (NSTT). <i>Physica D: Nonlinear Phenomena</i> , 1997, 100, 145-164.	1.3	47
87	Numerical and experimental analysis of a continuous overhung rotor undergoing vibro-impacts. <i>International Journal of Non-Linear Mechanics</i> , 1999, 34, 415-435.	1.4	47
88	Transitions from Strongly to Weakly Nonlinear Motions of Damped Nonlinear Oscillators. <i>Nonlinear Dynamics</i> , 1999, 20, 99-114.	2.7	47
89	Reduced-order model for laminar vortex-induced vibration of a rigid circular cylinder with an internal nonlinear absorber. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 1916-1930.	1.7	47
90	Transient and chaotic low-energy transfers in a system with bistable nonlinearity. <i>Chaos</i> , 2015, 25, 053109.	1.0	47

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91	Subharmonic travelling waves in a geometrically non-linear circular plate. <i>International Journal of Non-Linear Mechanics</i> , 1994, 29, 233-245.	1.4	46
92	SHOCK ISOLATION THROUGH PASSIVE ENERGY PUMPING CAUSED BY NONSMOOTH NONLINEARITIES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 1989-2001.	0.7	46
93	Nonlinear targeted energy transfer and macroscopic analog of the quantum Landau-Zener effect in coupled granular chains. <i>Physica D: Nonlinear Phenomena</i> , 2013, 252, 46-58.	1.3	46
94	On the effect of multiple parallel nonlinear absorbers in palliation of torsional response of automotive drivetrain. <i>International Journal of Non-Linear Mechanics</i> , 2017, 96, 22-35.	1.4	46
95	Nonlinear Resonances Leading to Strong Pulse Attenuation in Granular Dimer Chains. <i>Journal of Nonlinear Science</i> , 2013, 23, 363-392.	1.0	45
96	Vortex-induced vibration of a linearly sprung cylinder with an internal rotational nonlinear energy sink in turbulent flow. <i>Nonlinear Dynamics</i> , 2020, 99, 593-609.	2.7	45
97	Broadband non-reciprocity with robust signal integrity in a triangle-shaped nonlinear 1D metamaterial. <i>Nonlinear Dynamics</i> , 2020, 100, 1-13.	2.7	44
98	Energy Harvesting From Impulsive Loads Using Intentional Essential Nonlinearities. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2011, 133, .	1.0	43
99	Alternation of regular and chaotic dynamics in a simple two-degree-of-freedom system with nonlinear inertial coupling. <i>Chaos</i> , 2012, 22, 013118.	1.0	43
100	Passive targeted energy transfers and strong modal interactions in the dynamics of a thin plate with strongly nonlinear attachments. <i>International Journal of Solids and Structures</i> , 2009, 46, 2330-2353.	1.3	42
101	A global-local approach to nonlinear system identification: A review. <i>Structural Control and Health Monitoring</i> , 2010, 17, 742-760.	1.9	42
102	An Energy-Based Approach to Computing Resonant Nonlinear Normal Modes. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1996, 63, 810-819.	1.1	41
103	Interaction Between Slow and Fast Oscillations in an Infinite Degree-of-Freedom Linear System Coupled to a Nonlinear Subsystem: Theory and Experiment. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1999, 66, 448-459.	1.1	41
104	NON-LINEAR NORMAL MODES AND NON-PARAMETRIC SYSTEM IDENTIFICATION OF NON-LINEAR OSCILLATORS. <i>Mechanical Systems and Signal Processing</i> , 2000, 14, 37-48.	4.4	40
105	Shock Mitigation by Means of Low- to High-Frequency Nonlinear Targeted Energy Transfers in a Large-Scale Structure. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	0.7	40
106	The effect of a viscously damped dynamic absorber on a linear multi-degree-of-freedom system. <i>Journal of Sound and Vibration</i> , 1986, 105, 49-60.	2.1	39
107	Dynamic interaction of a semi-infinite linear chain of coupled oscillators with a strongly nonlinear end attachment. <i>Physica D: Nonlinear Phenomena</i> , 2003, 178, 1-18.	1.3	39
108	Scattering of Solitary Waves and Excitation of Transient Breathers in Granular Media by Light Intruders and No Precompression. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, .	1.1	39

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109	Strong geometric softening–hardening nonlinearities in an oscillator composed of linear stiffness and damping elements. <i>International Journal of Non-Linear Mechanics</i> , 2018, 107, 94-111.	1.4	39
110	Acoustic nonreciprocity in a lattice incorporating nonlinearity, asymmetry, and internal scale hierarchy: Experimental study. <i>Physical Review E</i> , 2018, 97, 052211.	0.8	39
111	Nonlinear Vibrations and Multiple Resonances of Fluid-Filled, Circular Shells, Part 2: Perturbation Analysis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2000, 122, 355-364.	1.0	38
112	Experimental Study of Strongly Nonlinear Resonances and Anti-Resonances in Granular Dimer Chains. <i>Experimental Mechanics</i> , 2013, 53, 861-870.	1.1	38
113	Analytical study of similar normal modes and their bifurcations in a class of strongly non-linear systems. <i>International Journal of Non-Linear Mechanics</i> , 1990, 25, 521-533.	1.4	37
114	A time-domain nonlinear system identification method based on multiscale dynamic partitions. <i>Meccanica</i> , 2011, 46, 625-649.	1.2	37
115	Atomic force microscope infrared spectroscopy on 15 nm scale polymer nanostructures. <i>Review of Scientific Instruments</i> , 2013, 84, 023709.	0.6	37
116	Analytical characterization of damping in gear teeth dynamics under hydrodynamic conditions. <i>Mechanism and Machine Theory</i> , 2015, 94, 141-147.	2.7	37
117	Methodology for model updating of mechanical components with local nonlinearities. <i>Journal of Sound and Vibration</i> , 2015, 357, 331-348.	2.1	37
118	Utilizing intentional internal resonance to achieve multi-harmonic atomic force microscopy. <i>Nanotechnology</i> , 2016, 27, 125501.	1.3	37
119	Modeling and Measurement of Geometrically Nonlinear Damping in a Microcantilever–Nanotube System. <i>ACS Nano</i> , 2013, 7, 8547-8553.	7.3	36
120	Energy equipartition in two-dimensional granular systems with spherical intruders. <i>Physical Review E</i> , 2013, 87, .	0.8	36
121	Rotary-impact nonlinear energy sink for shock mitigation: analytical and numerical investigations. <i>Archive of Applied Mechanics</i> , 2020, 90, 495-521.	1.2	36
122	A method for examining steady state solutions of forced discrete systems with strong non-linearities. <i>International Journal of Non-Linear Mechanics</i> , 1991, 26, 89-103.	1.4	35
123	Transient resonant interactions of finite linear chains with essentially nonlinear end attachments leading to passive energy pumping. <i>International Journal of Solids and Structures</i> , 2004, 41, 6505-6528.	1.3	35
124	Multi-frequency Atomic Force Microscopy based on enhanced internal resonance of an inner-paddled cantilever. <i>Sensors and Actuators A: Physical</i> , 2018, 273, 206-220.	2.0	35
125	Passive nonlinear targeted energy transfer. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170132.	1.6	35
126	Tunable Acoustic Nonreciprocity in Strongly Nonlinear Waveguides with Asymmetry. <i>Physical Review Applied</i> , 2019, 12, .	1.5	35

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127	Non-linear system identification of the dynamics of aeroelastic instability suppression based on targeted energy transfers. <i>Aeronautical Journal</i> , 2010, 114, 61-82.	1.1	34
128	Design, simulation, and large-scale testing of an innovative vibration mitigation device employing essentially nonlinear elastomeric springs. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 1829-1851.	2.5	34
129	Acoustic diode: Wave non-reciprocity in nonlinearly coupled waveguides. <i>Wave Motion</i> , 2018, 83, 49-66.	1.0	34
130	Broadband passive nonlinear acoustic diode. <i>Physical Review B</i> , 2019, 99, .	1.1	34
131	Karhunen-Loève Modes of a Truss: Transient Response Reconstruction and Experimental Verification. <i>AIAA Journal</i> , 2001, 39, 687-696.	1.5	33
132	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.	1.4	33
133	Frequency bands of strongly nonlinear homogeneous granular systems. <i>Physical Review E</i> , 2013, 88, 012206.	0.8	33
134	Realization of a Strongly Nonlinear Vibration-Mitigation Device Using Elastomeric Bumpers. <i>Journal of Engineering Mechanics - ASCE</i> , 2014, 140, .	1.6	33
135	Experimental study of nonlinear acoustic bands and propagating breathers in ordered granular media embedded in matrix. <i>Granular Matter</i> , 2015, 17, 49-72.	1.1	33
136	Transitions from localization to nonlocalization in strongly nonlinear damped oscillators. <i>Chaos, Solitons and Fractals</i> , 2000, 11, 1535-1542.	2.5	32
137	Multi-frequency nonlinear energy transfer from linear oscillators to mdof essentially nonlinear attachments. <i>Journal of Sound and Vibration</i> , 2005, 285, 483-490.	2.1	32
138	Interactions of propagating waves in a one-dimensional chain of linear oscillators with a strongly nonlinear local attachment. <i>Meccanica</i> , 2014, 49, 2375-2397.	1.2	32
139	Title is missing!. <i>Nonlinear Dynamics</i> , 1998, 15, 245-257.	2.7	31
140	Nonlinear low-to-high-frequency energy cascades in diatomic granular crystals. <i>Physical Review E</i> , 2015, 92, 062201.	0.8	31
141	Effect of an internal nonlinear rotational dissipative element on vortex shedding and vortex-induced vibration of a sprung circular cylinder. <i>Journal of Fluid Mechanics</i> , 2017, 828, 196-235.	1.4	31
142	DIRECT AND INVERSE PROBLEMS ENCOUNTERED IN VIBRO-IMPACT OSCILLATIONS OF A DISCRETE SYSTEM. <i>Journal of Sound and Vibration</i> , 1998, 216, 227-250.	2.1	30
143	Triggering mechanisms of limit cycle oscillations due to aeroelastic instability. <i>Journal of Fluids and Structures</i> , 2005, 21, 485-529.	1.5	30
144	Nonlinear system identification of the dynamics of a vibro-impact beam: numerical results. <i>Archive of Applied Mechanics</i> , 2012, 82, 1461-1479.	1.2	30

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145	Computational study of vortex-induced vibration of a sprung rigid circular cylinder with a strongly nonlinear internal attachment. <i>Journal of Fluids and Structures</i> , 2013, 40, 214-232.	1.5	30
146	Targeted Energy Transfer Between a Swept Wing and Winglet-Housed Nonlinear Energy Sink. <i>AIAA Journal</i> , 2014, 52, 2633-2651.	1.5	30
147	Strongly nonlinear beats in the dynamics of an elastic system with a strong local stiffness nonlinearity: Analysis and identification. <i>Journal of Sound and Vibration</i> , 2014, 333, 2054-2072.	2.1	30
148	A micromechanical mass sensing method based on amplitude tracking within an ultra-wide broadband resonance. <i>Nonlinear Dynamics</i> , 2018, 92, 287-304.	2.7	30
149	Passive spatial confinement of impulsive responses in coupled nonlinear beams. <i>AIAA Journal</i> , 1994, 32, 1902-1910.	1.5	29
150	Resonant oscillations of a weakly coupled, nonlinear layered system. <i>Acta Mechanica</i> , 1998, 128, 59-80.	1.1	29
151	Study of the Oscillations of a Nonlinearly Supported String Using Nonsmooth Transformations. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1998, 120, 434-440.	1.0	29
152	Karhunen-Loève Decomposition of the Transient Dynamics of a Multibay Truss. <i>AIAA Journal</i> , 1999, 37, 939-946.	1.5	29
153	Title is missing!. <i>Nonlinear Dynamics</i> , 2003, 33, 1-10.	2.7	29
154	Methodology for nonlinear quantification of a flexible beam with a local, strong nonlinearity. <i>Journal of Sound and Vibration</i> , 2017, 388, 298-314.	2.1	29
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