

# Steven Shaw

## List of Publications by Year in descending order

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168  
papers

7,905  
citations

53794

45  
h-index

54911

84  
g-index

173  
all docs

173  
docs citations

173  
times ranked

2612  
citing authors

#	ARTICLE	IF	CITATIONS
1	A periodically forced piecewise linear oscillator. <i>Journal of Sound and Vibration</i> , 1983, 90, 129-155.	3.9	815
2	Normal Modes for Non-Linear Vibratory Systems. <i>Journal of Sound and Vibration</i> , 1993, 164, 85-124.	3.9	528
3	Non-linear normal modes and invariant manifolds. <i>Journal of Sound and Vibration</i> , 1991, 150, 170-173.	3.9	285
4	On the dynamic response of a system with dry friction. <i>Journal of Sound and Vibration</i> , 1986, 108, 305-325.	3.9	265
5	Normal Modes of Vibration for Non-Linear Continuous Systems. <i>Journal of Sound and Vibration</i> , 1994, 169, 319-347.	3.9	221
6	Nonlinear Dynamics and Its Applications in Micro- and Nanoresonators. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010, 132, .	1.6	217
7	Chaotic vibrations of a beam with non-linear boundary conditions. <i>International Journal of Non-Linear Mechanics</i> , 1983, 18, 465-477.	2.6	213
8	Generalized parametric resonance in electrostatically actuated microelectromechanical oscillators. <i>Journal of Sound and Vibration</i> , 2006, 296, 797-829.	3.9	194
9	The Dynamics of a Harmonically Excited System Having Rigid Amplitude Constraints, Part 1: Subharmonic Motions and Local Bifurcations. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1985, 52, 453-458.	2.2	193
10	The nonlinear response of resonant microbeam systems with purely-parametric electrostatic actuation. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 890-899.	2.6	158
11	Forced vibrations of a beam with one-sided amplitude constraint: Theory and experiment. <i>Journal of Sound and Vibration</i> , 1985, 99, 199-212.	3.9	139
12	Periodically Forced Linear Oscillator with Impacts: Chaos and Long-Period Motions. <i>Physical Review Letters</i> , 1983, 51, 623-626.	7.8	131
13	A NEW GALERKIN-BASED APPROACH FOR ACCURATE NON-LINEAR NORMAL MODES THROUGH INVARIANT MANIFOLDS. <i>Journal of Sound and Vibration</i> , 2002, 249, 971-993.	3.9	127
14	The transition to chaos in a simple mechanical system. <i>International Journal of Non-Linear Mechanics</i> , 1989, 24, 41-56.	2.6	123
15	Tunable Microelectromechanical Filters that Exploit Parametric Resonance. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2005, 127, 423-430.	1.6	122
16	PERFORMANCE AND DYNAMIC STABILITY OF GENERAL-PATH CENTRIFUGAL PENDULUM VIBRATION ABSORBERS. <i>Journal of Sound and Vibration</i> , 2002, 252, 791-815.	3.9	119
17	Characterization of MEMS Resonator Nonlinearities Using the Ringdown Response. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 297-303.	2.5	115
18	On the response of the non-linear vibration absorber. <i>International Journal of Non-Linear Mechanics</i> , 1989, 24, 281-293.	2.6	103

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19	Linear and Nonlinear Tuning of Parametrically Excited MEMS Oscillators. Journal of Microelectromechanical Systems, 2007, 16, 310-318.	2.5	94
20	Direct observation of coherent energy transfer in nonlinear micromechanical oscillators. Nature Communications, 2017, 8, 15523.	12.8	92
21	APPLICATION OF GLOBAL METHODS FOR ANALYZING DYNAMICAL SYSTEMS TO SHIP ROLLING MOTION AND CAPSIZING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1992, 02, 101-115.	1.7	90
22	Nonlinear normal modes for vibratory systems under harmonic excitation. Journal of Sound and Vibration, 2005, 288, 791-812.	3.9	89
23	Circulant Matrices and Their Application to Vibration Analysis. Applied Mechanics Reviews, 2014, 66, .	10.1	89
24	The Dynamics of a Harmonically Excited System Having Rigid Amplitude Constraints, Part 2: Chaotic Motions and Global Bifurcations. Journal of Applied Mechanics, Transactions ASME, 1985, 52, 459-464.	2.2	88
25	Chaotic And Periodic Dynamics Of A Slider-Crank Mechanism With Slider Clearance. Journal of Sound and Vibration, 1994, 177, 307-324.	3.9	87
26	Modal Reduction of a Nonlinear Rotating Beam Through Nonlinear Normal Modes*. Journal of Vibration and Acoustics, Transactions of the ASME, 2002, 124, 229-236.	1.6	86
27	A single input-single output coupled microresonator array for the detection and identification of multiple analytes. Applied Physics Letters, 2008, 93, .	3.3	75
28	Stability of the Unison Response for a Rotating System With Multiple Tautochronic Pendulum Vibration Absorbers. Journal of Applied Mechanics, Transactions ASME, 1997, 64, 149-156.	2.2	74
29	Bifurcation Generated Mechanical Frequency Comb. Physical Review Letters, 2018, 121, 244302.	7.8	73
30	The Onset of Chaos in a Two-Degree-of-Freedom Impacting System. Journal of Applied Mechanics, Transactions ASME, 1989, 56, 168-174.	2.2	70
31	The construction of non-linear normal modes for systems with internal resonance. International Journal of Non-Linear Mechanics, 2005, 40, 729-746.	2.6	67
32	Normal modes for piecewise linear vibratory systems. Nonlinear Dynamics, 1996, 10, 135-164.	5.2	62
33	The impact of nonlinearity on degenerate parametric amplifiers. Applied Physics Letters, 2010, 96, .	3.3	62
34	Nonlinear Modal Analysis of Structural Systems Using Multi-Mode Invariant Manifolds. Nonlinear Dynamics, 2001, 25, 183-205.	5.2	60
35	Instabilities and bifurcations in a rotating shaft. Journal of Sound and Vibration, 1989, 132, 227-244.	3.9	57
36	Normal modes for large amplitude vibration of a cantilever beam. International Journal of Solids and Structures, 1994, 31, 1981-2014.	2.7	57

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37	Modal Analysis-Based Reduced-Order Models for Nonlinear Structures--An Invariant Manifold Approach. <i>The Shock and Vibration Digest</i> , 1999, 31, 3-16.	6.2	57
38	Tuning of centrifugal pendulum vibration absorbers for translational and rotational vibration reduction. <i>Mechanism and Machine Theory</i> , 2013, 66, 56-65.	4.5	53
39	Nonlinear Dynamics of Vehicle Traction. <i>Vehicle System Dynamics</i> , 2003, 40, 377-399.	3.7	52
40	Tuning for Performance and Stability in Systems of Nearly Tautochronic Torsional Vibration Absorbers. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010, 132, .	1.6	50
41	The Dynamics of an Impact Print Hammer. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1988, 110, 193-200.	1.6	49
42	Centrifugal Pendulum Vibration Absorbers: An Experimental and Theoretical Investigation. <i>Nonlinear Dynamics</i> , 2003, 34, 293-307.	5.2	48
43	Tautochronic Vibration Absorbers for Rotating Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006, 1, 283-293.	1.2	48
44	Finite-Element-Based Nonlinear Modal Reduction of a Rotating Beam with Large-Amplitude Motion. <i>JVC/Journal of Vibration and Control</i> , 2003, 9, 235-263.	2.6	47
45	A single input--single output mass sensor based on a coupled array of microresonators. <i>Sensors and Actuators A: Physical</i> , 2007, 137, 147-156.	4.1	47
46	Mechanical Domain Parametric Amplification. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2008, 130, .	1.6	47
47	Structural optimization for nonlinear dynamic response. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140408.	3.4	46
48	Chaos and Three-Dimensional Horseshoes in Slowly Varying Oscillators. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1988, 55, 959-968.	2.2	45
49	Component Mode Synthesis Using Nonlinear Normal Modes. <i>Nonlinear Dynamics</i> , 2005, 41, 17-46.	5.2	45
50	Accurate reduced-order models for a simple rotor blade model using nonlinear normal modes. <i>Mathematical and Computer Modelling</i> , 2001, 33, 1085-1097.	2.0	44
51	Non-linear resonance of an unbalanced rotating shaft with internal damping. <i>Journal of Sound and Vibration</i> , 1991, 147, 435-451.	3.9	42
52	Non-linear normal modes, invariance, and modal dynamics approximations of non-linear systems. <i>Nonlinear Dynamics</i> , 1995, 8, 315-346.	5.2	42
53	The dynamic response of a centrifugal pendulum vibration absorber with motion-limiting stops. <i>Journal of Sound and Vibration</i> , 1988, 126, 221-235.	3.9	41
54	An invariant manifold approach to nonlinear normal modes of oscillation. <i>Journal of Nonlinear Science</i> , 1994, 4, 419-448.	2.1	41

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55	Nonlinearity of Degenerately Doped Bulk-Mode Silicon MEMS Resonators. Journal of Microelectromechanical Systems, 2016, 25, 859-869.	2.5	41
56	A Review of Nonlinear Dynamics of Mechanical Systems in Year 2008. Journal of System Design and Dynamics, 2008, 2, 611-640.	0.3	40
57	The experimental response of an impacting pendulum system. International Journal of Non-Linear Mechanics, 1990, 25, 1-16.	2.6	38
58	Steady-State Responses in Systems of Nearly-Identical Torsional Vibration Absorbers. Journal of Vibration and Acoustics, Transactions of the ASME, 2003, 125, 80-87.	1.6	38
59	Bifurcation diagram and dynamic response of a MEMS resonator with a 1:3 internal resonance. Applied Physics Letters, 2019, 114, .	3.3	38
60	Tailoring the nonlinear response of MEMS resonators using shape optimization. Applied Physics Letters, 2017, 110, .	3.3	37
61	Nonlinear Modal Analysis of Structural Systems Using Multi-Mode Invariant Manifolds. , 2001, , 183-205.		37
62	The non-linear dynamics of electromagnetically actuated microbeam resonators with purely parametric excitations. International Journal of Non-Linear Mechanics, 2013, 55, 79-89.	2.6	36
63	Anomalous Decay of Nanomechanical Modes Going Through Nonlinear Resonance. Scientific Reports, 2017, 7, 18091.	3.3	34
64	Chaotic dynamics of a slender beam rotating about its longitudinal axis. Journal of Sound and Vibration, 1988, 124, 329-343.	3.9	33
65	Chaotic Motions of a Torsional Vibration Absorber. Journal of Applied Mechanics, Transactions ASME, 1988, 55, 952-958.	2.2	32
66	A Subharmonic Vibration Absorber for Rotating Machinery. Journal of Vibration and Acoustics, Transactions of the ASME, 1997, 119, 590-595.	1.6	31
67	Catastrophic sliding bifurcations and onset of oscillations in a superconducting resonator. Physical Review E, 2010, 81, 016213.	2.1	31
68	Spectrum of an Oscillator with Jumping Frequency and the Interference of Partial Susceptibilities. Physical Review Letters, 2010, 105, 230601.	7.8	31
69	Nonlinear Dynamics and Its Applications in Micro- and Nanoresonators. , 2008, , .		30
70	Vibration Reduction in a Variable Displacement Engine Using Pendulum Absorbers. , 2003, , .		29
71	Nonlinear normal modes and their application in structural dynamics. Mathematical Problems in Engineering, 2006, 2006, 1-15.	1.1	29
72	Sub-harmonic resonant solutions of a harmonically excited dry friction oscillator. Nonlinear Dynamics, 2007, 50, 93-109.	5.2	29

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73	Synchronous and non-synchronous responses of systems with multiple identical nonlinear vibration absorbers. <i>Journal of Sound and Vibration</i> , 2015, 348, 105-125.	3.9	28
74	Capsize criteria for ship models with memory-dependent hydrodynamics and random excitation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 1761-1791.	3.4	27
75	The Dynamic Response of Tuned Impact Absorbers for Rotating Flexible Structures. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006, 1, 13-24.	1.2	26
76	Frequency division using a micromechanical resonance cascade. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	26
77	Self-induced parametric amplification in ring resonating gyroscopes. <i>International Journal of Non-Linear Mechanics</i> , 2017, 94, 300-308.	2.6	26
78	Chaotic dynamics of a whirling pendulum. <i>Physica D: Nonlinear Phenomena</i> , 1988, 31, 190-211.	2.8	25
79	MEMS implementation of axial and follower end forces. <i>Journal of Sound and Vibration</i> , 2005, 286, 637-644.	3.9	25
80	Accounting for Roller Dynamics in the Design of Bifilar Torsional Vibration Absorbers. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2011, 133, .	1.6	25
81	A review of parametric resonance in microelectromechanical systems. <i>Nonlinear Theory and Its Applications IEICE</i> , 2013, 4, 198-224.	0.6	25
82	Phase Noise Reduction in an MEMS Oscillator Using a Nonlinearly Enhanced Synchronization Domain. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 870-876.	2.5	25
83	The effects of Coulomb friction on the performance of centrifugal pendulum vibration absorbers. <i>Nonlinear Dynamics</i> , 2012, 69, 589-600.	5.2	24
84	Resonant modal interactions in micro/nano-mechanical structures. <i>Nonlinear Dynamics</i> , 2021, 104, 1801-1828.	5.2	24
85	The Dynamic Stability and Non-Linear Resonance of a Flexible Connecting Rod: Single-Mode Model. <i>Journal of Sound and Vibration</i> , 1994, 170, 25-49.	3.9	23
86	Stability and Bifurcation of Longitudinal Vehicle Braking. <i>Nonlinear Dynamics</i> , 2005, 40, 339-365.	5.2	23
87	Active Vibration Control of a Flexible Beam Using a Buckling-Type End Force. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006, 128, 278-286.	1.6	23
88	Nonlinear Interactions in Systems of Multiple Order Centrifugal Pendulum Vibration Absorbers. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.6	23
89	Vibration reduction in a tilting rotor using centrifugal pendulum vibration absorbers. <i>Journal of Sound and Vibration</i> , 2016, 385, 55-68.	3.9	23
90	Nonlinear Normal Modes of a Rotating Shaft Based on the Invariant Manifold Method. <i>International Journal of Rotating Machinery</i> , 2004, 10, 319-335.	0.8	22

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91	Vibration Suppression in Structures Using Cable Actuators. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.6	22
92	Bifurcations of subharmonics. Journal of Differential Equations, 1986, 65, 304-320.	2.2	19
93	The effects of unbalance on oil whirl. Nonlinear Dynamics, 1990, 1, 293-311.	5.2	19
94	On codimension-three bifurcations in the motion of articulated tubes conveying a fluid. Physica D: Nonlinear Phenomena, 1987, 24, 305-327.	2.8	18
95	Vibration absorbers for a rotating flexible structure with cyclic symmetry: nonlinear path design. Nonlinear Dynamics, 2010, 60, 149-182.	5.2	18
96	Parametric amplification in a resonant sensing array. Journal of Micromechanics and Microengineering, 2012, 22, 035004.	2.6	18
97	Non-synchronous and Localized Responses of Systems of Identical Centrifugal Pendulum Vibration Absorbers. Arabian Journal for Science and Engineering, 2014, 39, 9205-9217.	1.1	18
98	Phase Noise Reduction and Optimal Operating Conditions for a Pair of Synchronized Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1-11.	5.4	18
99	Effects of Nonlinearities and Damping on the Dynamic Response of a Centrifugal Pendulum Vibration Absorber. Journal of Vibration and Acoustics, Transactions of the ASME, 1992, 114, 305-311.	1.6	17
100	Phase Control of Self-Excited Parametric Resonators. Physical Review Applied, 2019, 12, .	3.8	17
101	Parametrically Excited MEMS-Based Filters. , 2005, , 137-146.		15
102	The effects of nonlinear damping on degenerate parametric amplification. Nonlinear Dynamics, 2020, 102, 2433-2452.	5.2	15
103	Nonlinear dynamics of MEMS systems. , 2011, , .		14
104	Escape statistics for parameter sweeps through bifurcations. Physical Review E, 2012, 85, 046202.	2.1	14
105	The dynamic stability and nonlinear resonance of a flexible connecting rod: Continuous parameter model. Nonlinear Dynamics, 1993, 4, 573-603.	5.2	13
106	Experimental Investigation of a System With Multiple Nearly Identical Centrifugal Pendulum Vibration Absorbers. , 2003, , 913.		13
107	Noise-induced intermittency in a superconducting microwave resonator. Europhysics Letters, 2010, 89, 17003.	2.0	13
108	Subharmonic Resonance Cascades in a Class of Coupled Resonators. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	1.2	13

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109	Effective and robust rocking centrifugal pendulum vibration absorbers. <i>Journal of Sound and Vibration</i> , 2022, 527, 116821.	3.9	13
110	On the transient response of forced nonlinear oscillators. <i>Nonlinear Dynamics</i> , 2012, 67, 2609-2619.	5.2	12
111	On "roller-coaster" experiments for nonlinear oscillators. <i>Nonlinear Dynamics</i> , 1992, 3, 375-384.	5.2	11
112	Resonance Suppression in Multi-Degree-of-Freedom Rotating Flexible Structures Using Order-Tuned Absorbers. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2012, 134, .	1.6	11
113	Phase noise suppression through parametric filtering. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	11
114	Tuning linear and nonlinear characteristics of a resonator via nonlinear interaction with a secondary resonator. <i>Nonlinear Dynamics</i> , 2020, 99, 433-443.	5.2	11
115	Attenuation of Engine Torsional Vibrations Using Tuned Pendulum Absorbers. , 1997, , .		10
116	Nonlinear Transient Dynamics of Pendulum Torsional Vibration Absorbersâ€”Part I: Theory. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.6	10
117	A CAE Methodology for Reducing Rattle in Structural Components. , 0, , .		9
118	Modal disparity and its experimental verification. <i>Journal of Sound and Vibration</i> , 2008, 311, 1465-1475.	3.9	9
119	Nonlinear Transient Dynamics of Pendulum Torsional Vibration Absorbersâ€”Part II: Experimental Results. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.6	9
120	Experimental investigation on mode coupling of bulk mode silicon MEMS resonators. , 2015, , .		9
121	Spectral narrowing of parametrically pumped thermomechanical noise. <i>Applied Physics Letters</i> , 2020, 117, 033504.	3.3	8
122	The Effects of Gravity on the Response of Centrifugal Pendulum Vibration Absorbers. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2021, 143, .	1.6	8
123	Torsional Vibration Reduction in Internal Combustion Engines Using Centrifugal Pendulums. , 1995, , .		8
124	MODE LOCALIZATION DUE TO SYMMETRY-BREAKING NONLINEARITIES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1991, 01, 471-475.	1.7	7
125	Suppressing Frequency Fluctuations of Self-Sustained Vibrations in Underdamped Nonlinear Resonators. <i>Physical Review Applied</i> , 2021, 15, .	3.8	7
126	Giant parametric amplification and spectral narrowing in atomically thin MoS2 nanomechanical resonators. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	7



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127	Vibration Absorbers for Cyclic Rotating Flexible Structures: Linear and Nonlinear Tuning. , 2008, , .		6
128	A Method for the Improvement of Impact Printer Performance. Journal of Vibration and Acoustics, Transactions of the ASME, 1988, 110, 528-532.	1.6	5
129	Fast estimation of bifurcation conditions using noisy response data. , 2010, , .		5
130	Frequency Sweeping With Concurrent Parametric Amplification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	5
131	Comparison of Nonlinear System Identification Methods for Free Decay Measurements with Application to MEMS Devices. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 29-46.	0.5	5
132	Amplitude stabilization in a synchronized nonlinear nanomechanical oscillator. Communications Physics, 2022, 5, .	5.3	5
133	A FAST-MANIFOLD APPROACH TO MELNIKOV FUNCTIONS FOR SLOWLY VARYING OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 1575-1578.	1.7	4
134	Application of the Harmonic Balance Method to Centrifugal Pendulum Vibration Absorbers. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 243-252.	0.5	4
135	An Experimental Study of Torsional Vibration Absorbers. , 2001, , .		4
136	Phononic Frequency Comb Generation via 1:1 Mode Coupling in MoS <sub>2</sub> 2D Nanoelectromechanical Resonators. , 2022, , .		4
137	The Dynamic Response of a System With Preloaded Compliance. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1988, 110, 278-283.	1.6	3
138	Torsional Vibration Absorbers: A Testing and Evaluation Apparatus. , 0, , .		3
139	Nonlinear Response of Parametrically-Excited MEMS. , 2005, , 453.		3
140	A MEMS-Based Rate Gyro Based on Parametric Resonance. , 2008, , .		3
141	The Effects of Nonlinearity on Parametric Amplifiers. , 2008, , .		3
142	Accounting for Roller Dynamics in the Design of Bifilar Torsional Vibration Absorbers. , 2009, , .		3
143	Analysis and Design of Multiple Order Centrifugal Pendulum Vibration Absorbers. , 2012, , .		3
144	Special Section on the Dynamics of MEMS and NEMS. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	3

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145	Nonlinearity and parametric pumping in sensors: Opportunities and limitations. , 2017, , .		3
146	The Suppression of Chaos in Periodically Forced Oscillators. , 1990, , 289-296.		3
147	Steady-State Non-Synchronous and Localized Responses of Tuned Pendulum Vibration Absorbers. , 1999, , .		3
148	Frequency Sweeping With Concurrent Parametric Amplification. , 2008, , .		2
149	Resonance Suppression in Multi-DOF Rotating Flexible Structures Using Order-Tuned Absorbers. , 2009, , .		2
150	Generalized Parametric Resonance. SIAM Journal on Applied Dynamical Systems, 2016, 15, 767-788.	1.6	2
151	Modeling for Nonlinear Vibrational Response of Mechanical Systems. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2017, , 277-319.	0.6	2
152	A SISO, Multi-Analyte Sensor Based on a Coupled Microresonator Array. , 2006, , .		2
153	Non-Linear Normal Modes, Invariance, and Modal Dynamics Approximations of Non-Linear Systems. , 1993, , .		2
154	Effects of Remote Boundary Conditions on Clamping Loss in Micromechanical Resonators. Journal of Microelectromechanical Systems, 2022, 31, 204-216.	2.5	2
155	Nonlinear Transient Dynamics of Pendulum Torsional Vibration Absorbers. , 2011, , .		1
156	The Balanced Dynamical Bridge: Detection and Sensitivity to Parameter Shifts and Non-Gaussian Noise. , 2012, , .		1
157	Nonlinear Dynamics of Flexible Rotating Shafts With Centrifugal Pendulum Vibration Absorbers. , 2015, , .		1
158	Designing Nonlinear Torsional Vibration Absorbers. , 2012, , 135-169.		1
159	Arnold tongues and subharmonics in the forced oscillations of a mechanical clock. , 1985, , .		0
160	The Construction of Nonlinear Normal Modes for Systems With Internal Resonance: Application to Rotating Beams. , 2002, , 445.		0
161	Vibration Control in a Flexible Beam Using a Conservative Force. , 2004, , 1451.		0
162	Subharmonic Resonance Cascades in a Class of Coupled Resonators. , 2011, , .		0

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163	Preface to the special issue "NODYCON 2019", Nonlinear Dynamics, 2019, 98, 2427-2434.	5.2	0
164	Analytical and Experimental Investigation of Modal Disparity. , 2007, , .		0
165	Mechanical Domain Parametric Amplification. , 2007, , .		0
166	Non-linear modal analysis of the forced response of structural systems. , 1996, , .		0
167	Influence of Clamping Loss and Electrical Damping On Nonlinear Dissipation in Micromechanical Resonators. , 2022, , .		0
168	Maximizing the rate sensitivity of resonating gyroscopes using nonlinear shape optimization. Journal of Micromechanics and Microengineering, 2022, 32, 064003.	2.6	0