

# Walter Lacarbonara

## List of Publications by Citations

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177  
papers

3,303  
citations

31  
h-index

50  
g-index

192  
ext. papers

3,754  
ext. citations

3.4  
avg, IF

5.96  
L-index

#	Paper	IF	Citations
177	Vibrations of carbon nanotube-reinforced composites. <i>Journal of Sound and Vibration</i> , <b>2010</b> , 329, 1875-1889	3.9	172
176	Resonant non-linear normal modes. Part I: analytical treatment for structural one-dimensional systems. <i>International Journal of Non-Linear Mechanics</i> , <b>2003</b> , 38, 851-872	2.8	130
175	Multiple resonances in suspended cables: direct versus reduced-order models. <i>International Journal of Non-Linear Mechanics</i> , <b>1999</b> , 34, 901-924	2.8	112
174	Multimode Interactions in Suspended Cables. <i>JVC/Journal of Vibration and Control</i> , <b>2002</b> , 8, 337-387	2	87
173	Nonclassical Responses of Oscillators with Hysteresis. <i>Nonlinear Dynamics</i> , <b>2003</b> , 32, 235-258	5	86
172	Resonant non-linear normal modes. Part II: activation/orthogonality conditions for shallow structural systems. <i>International Journal of Non-Linear Mechanics</i> , <b>2003</b> , 38, 873-887	2.8	84
171	Nonlinear Structural Mechanics <b>2013</b> ,		81
170	Refined models of elastic beams undergoing large in-plane motions: Theory and experiment. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 5066-5084	3.1	80
169	Non-linear interactions in imperfect beams at veering. <i>International Journal of Non-Linear Mechanics</i> , <b>2005</b> , 40, 987-1003	2.8	78
168	DIRECT TREATMENT AND DISCRETIZATIONS OF NON-LINEAR SPATIALLY CONTINUOUS SYSTEMS. <i>Journal of Sound and Vibration</i> , <b>1999</b> , 221, 849-866	3.9	78
167	Experimental Validation of Reduction Methods for Nonlinear Vibrations of Distributed-Parameter Systems: Analysis of a Buckled Beam. <i>Nonlinear Dynamics</i> , <b>1998</b> , 17, 95-117	5	77
166	Nonlinear thermomechanical oscillations of shape-memory devices. <i>International Journal of Solids and Structures</i> , <b>2004</b> , 41, 1209-1234	3.1	75
165	Nonlinear Normal Modes of Buckled Beams: Three-to-One and One-to-One Internal Resonances. <i>Nonlinear Dynamics</i> , <b>1999</b> , 18, 253-273	5	71
164	On the Discretization of Distributed-Parameter Systems with Quadratic and Cubic Nonlinearities. <i>Nonlinear Dynamics</i> , <b>1997</b> , 13, 203-220	5	70
163	Hysteretic tuned mass dampers for structural vibration mitigation. <i>Journal of Sound and Vibration</i> , <b>2014</b> , 333, 1302-1318	3.9	59
162	Nonlinear parametric modeling of suspension bridges under aeroelastic forces: torsional divergence and flutter. <i>Nonlinear Dynamics</i> , <b>2012</b> , 70, 2487-2510	5	59
161	Nonlinear normal modes of structural systems via asymptotic approach. <i>International Journal of Solids and Structures</i> , <b>2004</b> , 41, 5565-5594	3.1	55

160	Nonlinear vibration isolation via a circular ring. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 136, 1064-1090	5	51
159	A geometrically exact approach to the overall dynamics of elastic rotating blades—part 1: linear modal properties. <i>Nonlinear Dynamics</i> , <b>2012</b> , 70, 659-675	5	52
158	Metamaterial beam with embedded nonlinear vibration absorbers. <i>International Journal of Non-Linear Mechanics</i> , <b>2018</b> , 98, 32-42	2.8	51
157	Mitigation of post-flutter oscillations in suspension bridges by hysteretic tuned mass dampers. <i>Engineering Structures</i> , <b>2014</b> , 69, 62-71	4.7	48
156	Nonlinear dynamic characterization of a new hysteretic device: experiments and computations. <i>Nonlinear Dynamics</i> , <b>2016</b> , 83, 23-39	5	42
155	A review on computational intelligence for identification of nonlinear dynamical systems. <i>Nonlinear Dynamics</i> , <b>2020</b> , 99, 1709-1761	5	39
154	Hysteresis of Multiconfiguration Assemblies of Nitinol and Steel Strands: Experiments and Phenomenological Identification. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2015</b> , 141, 04014135	2.4	38
153	Non-linear modal properties of non-shallow cables. <i>International Journal of Non-Linear Mechanics</i> , <b>2007</b> , 42, 542-554	2.8	38
152	On solution strategies to Saint-Venant problem. <i>Journal of Computational and Applied Mathematics</i> , <b>2007</b> , 206, 473-497	2.4	35
151	On the linear normal modes of planar pre-stressed curved beams. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 284, 1075-1097	3.9	35
150	Parametric resonances in a base-excited double pendulum. <i>Nonlinear Dynamics</i> , <b>2012</b> , 69, 1679-1692	5	34
149	An updated micromechanical model based on morphological characterization of carbon nanotube nanocomposites. <i>Composites Part B: Engineering</i> , <b>2017</b> , 115, 70-78	10	33
148	Buckling and post-buckling of non-uniform non-linearly elastic rods. <i>International Journal of Mechanical Sciences</i> , <b>2008</b> , 50, 1316-1325	5.5	32
147	Mitigation of Pedestrian-induced Vibrations in Suspension Footbridges via Multiple Tuned Mass Dampers. <i>JVC/Journal of Vibration and Control</i> , <b>2010</b> , 16, 749-776	2	31
146	Flutter Control of a Lifting Surface via Visco-Hysteretic Vibration Absorbers. <i>International Journal of Aeronautical and Space Sciences</i> , <b>2011</b> , 12, 331-345	1.2	31
145	Dynamic response of arch bridges traversed by high-speed trains. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 304, 72-90	3.9	30
144	Modeling of planar nonshallow prestressed beams towards asymptotic solutions. <i>Mechanics Research Communications</i> , <b>2004</b> , 31, 301-310	2.2	30
143	Damage detection by modal curvatures: numerical issues. <i>JVC/Journal of Vibration and Control</i> , <b>2016</b> , 22, 1913-1927	2	29

142	Coupling FEM With Parameter Continuation for Analysis of Bifurcations of Periodic Responses in Nonlinear Structures. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2013</b> , 8,	1.4	29
141	A generalized higher-order theory for multi-layered, shear-deformable composite plates. <i>Acta Mechanica</i> , <b>2010</b> , 209, 85-98	2.1	29
140	Nonlinear Modeling of Cables with Flexural Stiffness. <i>Mathematical Problems in Engineering</i> , <b>2008</b> , 2008, 1-21	1.1	29
139	Elastodynamics of Nonshallow Suspended Cables: Linear Modal Properties. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2007</b> , 129, 425-433	1.6	29
138	Nonlinear Vibration Absorber with Pinched Hysteresis: Theory and Experiments. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2016</b> , 142, 04016023	2.4	28
137	A geometrically exact approach to the overall dynamics of elastic rotating blades part 2: flapping nonlinear normal modes. <i>Nonlinear Dynamics</i> , <b>2012</b> , 70, 2279-2301	5	28
136	Nonlinear Aeroelastic Formulation and Postflutter Analysis of Flexible High-Aspect-Ratio Wings. <i>Journal of Aircraft</i> , <b>2013</b> , 50, 1748-1764	1.6	28
135	Forced Radial Motions of Nonlinearly Viscoelastic Shells. <i>Journal of Elasticity</i> , <b>2009</b> , 96, 155-190	1.5	28
134	A generalized higher-order theory for buckling of thick multi-layered composite plates with normal and transverse shear strains. <i>Composite Structures</i> , <b>2010</b> , 92, 3011-3019	5.3	28
133	Dynamical response identification of a class of nonlinear hysteretic systems. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 2795-2810	2.3	27
132	Nonlinear modeling of carbon nanotube composites dissipation due to interfacial stick-slip. <i>International Journal of Plasticity</i> , <b>2014</b> , 53, 148-163	7.6	27
131	Flutter of an Arch Bridge via a Fully Nonlinear Continuum Formulation. <i>Journal of Aerospace Engineering</i> , <b>2011</b> , 24, 112-123	1.4	26
130	Non-linear cancellation of the parametric resonance in elastic beams: Theory and experiment. <i>International Journal of Solids and Structures</i> , <b>2007</b> , 44, 2209-2224	3.1	24
129	Nonlinear Active Cancellation of the Parametric Resonance in a Magnetically Levitated Body. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2004</b> , 126, 433-442	1.6	24
128	Dynamics of container cranes: three-dimensional modeling, full-scale experiments, and identification. <i>International Journal of Mechanical Sciences</i> , <b>2015</b> , 93, 8-21	5.5	23
127	Simply supported elastic beams under parametric excitation. <i>Nonlinear Dynamics</i> , <b>2008</b> , 53, 129-138	5	23
126	Free in-plane vibrations of highly buckled beams carrying a lumped mass. <i>Acta Mechanica</i> , <b>2005</b> , 180, 133-156	2.1	23
125	Aeroelastic behavior of long-span suspension bridges under arbitrary wind profiles. <i>Journal of Fluids and Structures</i> , <b>2014</b> , 50, 105-119	3.1	21

124	Parametric instabilities of the radial motions of non-linearly viscoelastic shells under pulsating pressures. <i>International Journal of Non-Linear Mechanics</i> , <b>2012</b> , 47, 461-472	2.8	21
123	Nonlinear response of elastic cables with flexural-torsional stiffness. <i>International Journal of Solids and Structures</i> , <b>2016</b> , 87, 267-277	3.1	19
122	Data-Based Nonlinear Identification and Constitutive Modeling of Hysteresis in NiTiNOL and Steel Strands. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2016</b> , 142, 04016107	2.4	19
121	A fully nonlinear dynamic formulation for rotating composite beams: Nonlinear normal modes in flapping. <i>Composite Structures</i> , <b>2014</b> , 109, 93-105	5.3	19
120	Nonlinear Aeroelastic Formulation for Flexible High-Aspect Ratio Wings via Geometrically Exact Approach <b>2011</b> ,		19
119	Closed-loop non-linear control of an initially imperfect beam with non-collocated input. <i>Journal of Sound and Vibration</i> , <b>2004</b> , 273, 695-711	3.9	19
118	Open-Loop Nonlinear Vibration Control of Shallow Arches via Perturbation Approach. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2002</b> , 69, 325-334	2.7	19
117	Nonlinear vibration analysis of rotating beams undergoing parametric instability: Lagging-axial motion. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 144, 106892	7.8	18
116	A geometrically exact formulation for thin multi-layered laminated composite plates: Theory and experiment. <i>Composite Structures</i> , <b>2011</b> , 93, 1649-1663	5.3	18
115	Three-dimensional modeling of interfacial stick-slip in carbon nanotube nanocomposites. <i>International Journal of Plasticity</i> , <b>2017</b> , 88, 204-217	7.6	17
114	Mem-models as building blocks for simulation and identification of hysteretic systems. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 973-998	5	16
113	Indicial functions in the aeroelasticity of bridge decks. <i>Journal of Fluids and Structures</i> , <b>2014</b> , 48, 203-215	3.1	15
112	Flexural vibrations of nonlinearly elastic circular rings. <i>Meccanica</i> , <b>2015</b> , 50, 689-705	2.1	14
111	Payload oscillations control in harbor cranes via semi-active vibration absorbers: modeling, simulations and experimental results. <i>Procedia Engineering</i> , <b>2017</b> , 199, 501-509		14
110	Vibration mitigation of guyed masts via tuned pendulum dampers. <i>Structural Engineering and Mechanics</i> , <b>2009</b> , 32, 517-529		14
109	Understanding COVID-19 nonlinear multi-scale dynamic spreading in Italy. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 1-37	5	14
108	Nonlinear normal modes for damage detection. <i>Meccanica</i> , <b>2016</b> , 51, 2629-2645	2.1	13
107	Response of Electrostatically Actuated Flexible MEMS Structures to the Onset of Low-Velocity Contact <b>2009</b> ,		13

106	Parametric Resonances of Nonlinearly Viscoelastic Rings Subject to a Pulsating Pressure <b>2007</b> ,		13
105	An Experimental Investigation of the Parametric Resonance in a Buckled Beam <b>2003</b> , 2565		13
104	Nonlinear Finite Element-Based Path Following of Periodic Solutions <b>2011</b> ,		12
103	Advanced System Identification of Plates Using a Higher-Order-Spectral Approach: Theory and Experiment <b>2011</b> ,		12
102	Vibration Behavior of Thick Composite Laminated Plates Subject to In-Plane Pre-Stress Loading <b>2007</b> , 2105		12
101	Hysteretic damping optimization in carbon nanotube nanocomposites. <i>Composite Structures</i> , <b>2018</b> , 194, 633-642	5-3	11
100	A three-dimensional continuum approach to the thermoelastodynamics of large-scale structures. <i>Engineering Structures</i> , <b>2012</b> , 40, 155-167	4-7	11
99	Damage model of carbon nanotubes debonding in nanocomposites. <i>Composite Structures</i> , <b>2013</b> , 96, 514-525	5-3	11
98	Post-Critical Behavior of Suspension Bridges Under Nonlinear Aerodynamic Loading. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2016</b> , 11,	1.4	10
97	Enabling reduced-order data-driven nonlinear identification and modeling through naive elastic net regularization. <i>International Journal of Non-Linear Mechanics</i> , <b>2017</b> , 94, 46-58	2.8	9
96	Seismic effectiveness of hysteretic tuned mass dampers for inelastic structures. <i>Engineering Structures</i> , <b>2020</b> , 216, 110591	4-7	9
95	Parametric Identification of Carbon Nanotube Nanocomposites Constitutive Response. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2019</b> , 86,	2.7	9
94	Tailoring of pinched hysteresis for nonlinear vibration absorption via asymptotic analysis. <i>International Journal of Non-Linear Mechanics</i> , <b>2017</b> , 94, 59-71	2.8	8
93	Delamination detection in composite laminates using high-frequency P- and S-waves [Part I: Theory and analysis. <i>Composite Structures</i> , <b>2015</b> , 134, 1095-1108	5-3	8
92	Open-Loop Resonance-Cancellation Control for a Base-Excited Pendulum. <i>JVC/Journal of Vibration and Control</i> , <b>2001</b> , 7, 1265-1279	2	8
91	Nonlinear Dynamic Response of Carbon Nanotube Nanocomposite Microbeams. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2017</b> , 12,	1.4	7
90	Experimental data based cable tension identification via nonlinear static inverse problem. <i>Procedia Engineering</i> , <b>2017</b> , 199, 453-458		7
89	Asymptotic dynamic modeling and response of hysteretic nanostructured beams. <i>Nonlinear Dynamics</i> , <b>2020</b> , 99, 227-248	5	7

88	Buckling and postbuckling of extensible, shear-deformable beams: Some exact solutions and new insights. <i>International Journal of Non-Linear Mechanics</i> , <b>2021</b> , 129, 103667	2.8	7
87	Nonlinear Vibration Absorber Optimal Design via Asymptotic Approach. <i>Procedia IUTAM</i> , <b>2016</b> , 19, 65-74		7
86	"Sliding Crystals" on Low-Dimensional Carbonaceous Nanofillers as Distributed Nanopistons for Highly Damping Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 38147-38159	9.5	6
85	Nonlinear tuning of microresonators for dynamic range enhancement. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2015</b> , 471, 20140969	2.4	6
84	Nonlinear interactions in deformable container cranes. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2016</b> , 230, 5-20	1.3	6
83	Harvesting energy from Faraday waves. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 224501	2.5	6
82	A Nonclassical Vibration Absorber for Pendulation Reduction. <i>JVC/Journal of Vibration and Control</i> , <b>2001</b> , 7, 365-393	2	6
81	Tailoring of Hysteresis Across Different Material Scales. <i>Springer Proceedings in Physics</i> , <b>2018</b> , 227-250	0.2	6
80	Pathfollowing of high-dimensional hysteretic systems under periodic forcing. <i>Nonlinear Dynamics</i> , <b>2021</b> , 103, 3515-3528	5	6
79	Ropeway roller batteries dynamics: Modeling, identification, and full-scale validation. <i>Engineering Structures</i> , <b>2019</b> , 180, 793-808	4.7	6
78	Exploration of the Nonlinear Effect of Pendulum Tuned Mass Dampers on Vibration Control. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2021</b> , 147, 04021047	2.4	6
77	A nonlinear mechanical model for the fatigue life of thin-film carbon nanotube supercapacitors. <i>Composites Part B: Engineering</i> , <b>2015</b> , 80, 299-306	10	5
76	Hysteretic Beam Model for Steel Wire Ropes Hysteresis Identification. <i>Springer Proceedings in Physics</i> , <b>2015</b> , 261-282	0.2	5
75	On various representations of higher order approximations of the free oscillatory response of nonlinear dynamical systems. <i>Journal of Sound and Vibration</i> , <b>2011</b> , 330, 3410-3423	3.9	5
74	Post-Flutter Analysis of Flexible High-Aspect-Ratio Wings <b>2012</b> ,		5
73	Galloping Instabilities of Geometrically Nonlinear Nonshallow Cables Under Steady Wind Flows <b>2005</b> , 1565		5
72	Quantifying rate dependence of hysteretic systems. <i>Procedia Engineering</i> , <b>2017</b> , 199, 1447-1453		4
71	Delamination detection in composite laminates using high-frequency P- and S-waves [Part II: Experimental validation. <i>Composite Structures</i> , <b>2015</b> , 134, 1109-1117	5.3	4

70	Enhancing flutter stability in nanocomposite thin panels by harnessing CNT/polymer dissipation. <i>Mechanics Research Communications</i> , <b>2020</b> , 104, 103495	2.2	4
69	On the stability of magnetically levitated rotating rings. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 131-132, 286-295	5.5	4
68	A new vibration absorber based on the hysteresis of multi-configuration NiTiNOL-steel wire ropes assemblies. <i>MATEC Web of Conferences</i> , <b>2014</b> , 16, 01004	0.3	4
67	Detection of Nonlinearities in Plates Via Higher-Order-Spectra: Numerical and Experimental Studies. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2014</b> , 136,	1.6	4
66	Three-Dimensional Modeling of Container Cranes <b>2013</b> ,		4
65	Linear Vibrations of Planar Prestressed Elastica Arches <b>2004</b> ,		4
64	Poincaré Map-Based Continuation of Periodic Orbits in Dynamic Discontinuous and Hysteretic Systems <b>1999</b> ,		4
63	Nonlinear vibration absorbers for ropeway roller batteries control. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2020</b> , 095440622095345	1.3	4
62	Optimal Design of CNT-Nanocomposite Nonlinear Shells. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
61	Piezoelectrically induced nonlinear resonances for dynamic morphing of lightweight panels. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 498, 115951	3.9	4
60	Dynamic Response of Nonlinear Oscillators With Hysteresis <b>2015</b> ,		3
59	Nonlinear Phenomena in Hysteretic Systems. <i>Procedia IUTAM</i> , <b>2012</b> , 5, 69-77		3
58	Periodic and Nonperiodic Thermomechanical Responses of Shape-Memory Oscillators <b>2001</b> ,		3
57	A review on buckling and postbuckling of thin elastic beams. <i>European Journal of Mechanics, A/Solids</i> , <b>2022</b> , 92, 104449	3.7	3
56	Nonlinear Dynamic Response of Nanocomposite Cantilever Beams <b>2020</b> , 49-57		3
55	Nonlinear dynamic response of a wire rope isolator: Experiment, identification and validation. <i>Engineering Structures</i> , <b>2021</b> , 238, 112121	4.7	3
54	A ring vibration isolator enhanced by shape memory pseudoelasticity. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 100, 1-15	4.5	3
53	On the reliability of a PCA-based method for structural diagnosis in bridge structures with environmental disturbances. <i>MATEC Web of Conferences</i> , <b>2012</b> , 1, 01002	0.3	2



52	The Nonlinear Theory of Plates <b>2013</b> , 497-592		2
51	Buckling of Laminated Composite Plates via a Refined Higher-Order Theory <b>2006</b> ,		2
50	STORAGE AND DAMPING OPTIMIZATION IN HYSTERETIC MULTILAYER NANOCOMPOSITES. <i>International Journal for Multiscale Computational Engineering</i> , <b>2020</b> , 18, 141-157	2.4	2
49	Optimized Hysteretic TMD for Seismic Control of a Nonlinear Steel Structure <b>2018</b> ,		2
48	Computational efficiency and accuracy of sequential nonlinear cyclic analysis of carbon nanotube nanocomposites. <i>Advances in Engineering Software</i> , <b>2018</b> , 125, 126-135	3.6	2
47	Nonlinear dynamic response of an isolation system with superelastic hysteresis and negative stiffness. <i>Nonlinear Dynamics</i> ,1	5	2
46	Three-part humeral head fractures treated with a definite construct of blocked threaded wires: finite element and parametric optimization analysis. <i>JSES International</i> , <b>2021</b> , 5, 983-991	1.2	2
45	Nonlinearity of Finite-Amplitude Sloshing in Rectangular Containers. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2017</b> , 84,	2.7	1
44	Numerical and Experimental Assessment of the Modal Curvature Method for Damage Detection in Plate Structures. <i>Springer Proceedings in Physics</i> , <b>2015</b> , 59-68	0.2	1
43	Numerical and experimental assessment of the modal curvature method for damage detection in plate structures. <i>MATEC Web of Conferences</i> , <b>2014</b> , 16, 02007	0.3	1
42	The Elastic Cable: From Formulation to Computation <b>2013</b> , 155-209		1
41	Dynamic Response and Identification of Tower-Cable-Roller Battery Interactions in Ropeways <b>2017</b> ,		1
40	Free Vibration of Micromembranes Subject to Prestress and Pressure <b>2015</b> ,		1
39	Nonlinear Vibration Absorber Design: An Asymptotic Approach <b>2015</b> ,		1
38	Design and Analysis of a Microelectromechanical Device Capable of Testing Theoretical Models of Impact at the Microscale <b>2012</b> ,		1
37	The Nonlinear Theory of Cable-Supported Structures <b>2013</b> , 593-680		1
36	Concepts, Methods, and Paradigms <b>2013</b> , 1-66		1
35	The Nonlinear Theory of Curved Beams and Flexurally Stiff Cables <b>2013</b> , 433-496		1

34	Unsteady Aerodynamic Modeling and Flutter Analysis of Long-Span Suspension Bridges <b>2012</b> ,		1
33	On assessing the robustness of an input signal optimization algorithm for damage detection: the Info-Gap Decision Theory approach. <i>MATEC Web of Conferences</i> , <b>2012</b> , 1, 01003	0.3	1
32	Zeroth-Order Corrections to the Euler-Bernoulli Beam Model <b>2010</b> ,		1
31	Modeling and analysis of smart localized structural elements for nonlinear vibration control of a taut string <b>2002</b> , 4693, 407		1
30	Nonlinear wave propagation in locally dissipative metamaterials via Hamiltonian perturbation approach. <i>Nonlinear Dynamics</i> ,1	5	1
29	Optimum design of tuned mass damper with pinched hysteresis under nonstationary stochastic seismic ground motion. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 170, 108745	7.8	1
28	Quantifying Rate-Dependence of a Nonlinear Hysteretic Device <b>2020</b> , 347-355		1
27	Dynamic Morphing of Actuated Elastic Membranes. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2020</b> , 37-48	0.3	1
26	Stabilization Environment for Swing Stabilization and MEDEVAC Hoists <b>2021</b> ,		1
25	Cable tension identification via nonlinear static inverse problem. <i>Structural Health Monitoring</i> , <b>2021</b> , 20, 546-566	4.4	1
24	Interface Engineering of CNT/Polymer Nanocomposites With Tunable Damping Properties <b>2018</b> ,		1
23	Nonlinear Dynamic Response of Hysteretic Wire Ropes: Modeling and Experiments <b>2018</b> ,		1
22	Passive Vibration Control of Roller Batteries in Cableways <b>2018</b> ,		1
21	Variable Length Sling Load Hoisting Control Method <b>2022</b> , 233-242		1
20	Computationally efficient reduction of modal data from finite element models by nested sets of B-splines. <i>Composite Structures</i> , <b>2015</b> , 134, 549-564	5.3	0
19	The Nonlinear Theory of Arch-Supported Structures <b>2013</b> , 681-715		0
18	Nonlinear dynamic response of a multilayer piezoelectric nanocomposite microbeam with tip mass. <i>Composite Structures</i> , <b>2021</b> , 256, 113077	5.3	0
17	Parametric resonances of nonlinear piezoelectric beams exploiting in-plane actuation. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 163, 108119	7.8	0

- 16 Modeling Asymmetric Hysteresis Inspired and Validated by Experimental Data **2022**, 371-381 0
- 15 Nonlinear Mechanics of Three-Dimensional Solids **2013**, 211-283
- 14 Elastic Instabilities of Slender Structures **2013**, 367-431
- 13 The Nonlinear Theory of Beams **2013**, 285-366
- 12 Discretization Methods **2013**, 717-749
- 11 Stability and Bifurcation of Structures **2013**, 67-153
- 10 Special Issue of the Journal of Vibration and Control in honor of Professor Fabrizio Vestroni:  
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