

# Giuseppe Rega

## 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.

170 papers	3,923 citations	34 h-index	54 g-index
177 ext. papers	4,317 ext. citations	3.4 avg, IF	6 L-index

#	Paper	IF	Citations
170	Nonlinear mode localization in boundary-interior coupled structures by an asymptotic approach. <i>International Journal of Non-Linear Mechanics</i> , <b>2022</b> , 103929	2.8	1
169	Recognized Italian Scholars of Mechanics <b>2022</b> , 69-89		
168	AIMETA: A Proper Perspective to Retrace the Evolution of Italian Mechanics, with a Focus on Solids and Structures <b>2022</b> , 3-67		
167	Italian Mechanics: Overviews, Viewpoints, Perspectives <b>2022</b> , 121-131		
166	General perturbation correction: full-decomposition and physics-based elimination of non-secular terms. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 106966	5.5	
165	On the Geometric Nonlinearities in the Dynamics of a Planar Timoshenko Beam <b>2021</b> , 109-142		
164	Modal dynamics of boundary-interior coupled structures. Part 1: A general approach using components Green's function. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 149, 107230	7.8	
163	Modal dynamics of boundary-interior coupled structures. Part 2: An asymptotic interpretation of mode localization. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 149, 107248	7.8	1
162	Longitudinal-transversal internal resonances in Timoshenko beams with an axial elastic boundary condition. <i>Nonlinear Dynamics</i> , <b>2021</b> , 103, 3489-3513	5	12
161	Global dynamics perspective on macro- to nano-mechanics. <i>Nonlinear Dynamics</i> , <b>2021</b> , 103, 1259-1303	5	3
160	Nonlinear dynamics of a third-order reduced model of thermomechanically coupled plate under different thermal excitations. <i>Meccanica</i> , <b>2020</b> , 55, 2451-2473	2.1	5
159	Minimal thermal modeling of two-way thermomechanically coupled plates for nonlinear dynamics investigation. <i>Journal of Thermal Stresses</i> , <b>2020</b> , 43, 345-371	2.2	2
158	Unveiling Transient to Steady Effects in Reduced Order Models of Thermomechanical Plates via Global Dynamics. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2020</b> , 249-259	0.3	
157	Catenary-Based Nonlinear Multimodal Theory of Cable Free Vibrations <b>2020</b> , 197-205		
156	1:1 internal resonance in a two d.o.f. complete system: a comprehensive analysis and its possible exploitation for design. <i>Meccanica</i> , <b>2020</b> , 55, 1309-1332	2.1	15
155	Two perturbation formulations of the nonlinear dynamics of a cable excited by a boundary motion. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 79, 434-450	4.5	7
154	Direct and discretized perturbations revisited: A new error source interpretation, with application to moving boundary problem. <i>European Journal of Mechanics, A/Solids</i> , <b>2020</b> , 81, 103936	3.7	8

153	In memory of Professor Ali H. Nayfeh. <i>Nonlinear Dynamics</i> , <b>2020</b> , 99, 1-9	5	7
152	Modeling and nonlinear dynamics of thermomechanically coupled composite plates. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 187, 106106	5.5	3
151	Chaos in one-dimensional structural mechanics. <i>Nonlinear Dynamics</i> , <b>2020</b> , 102, 785-834	5	9
150	Nonlinear dynamics in mechanics and engineering: 40 years of developments and Ali H. Nayfeh's legacy. <i>Nonlinear Dynamics</i> , <b>2020</b> , 99, 11-34	5	12
149	Tribute to Ali H. Nayfeh (1933-2017). <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2020</b> , 1-13	0.3	1
148	Dynamical properties of a composite microcracked bar based on a generalized continuum formulation. <i>Continuum Mechanics and Thermodynamics</i> , <b>2019</b> , 31, 1627-1644	3.5	12
147	Solvability conditions in multi-scale dynamic analysis of one-dimensional structures with non-homogeneous boundaries: A general operator formulation. <i>International Journal of Non-Linear Mechanics</i> , <b>2019</b> , 115, 68-75	2.8	7
146	Thermomechanical Coupling and Transient to Steady Global Dynamics of Orthotropic Plates. <i>Advanced Structured Materials</i> , <b>2019</b> , 483-499	0.6	3
145	Local Versus Global Dynamics and Control of an AFM Model in a Safety Perspective. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , <b>2019</b> , 229-286	0.6	2
144	Influence of transient escape and added load noise on the dynamic integrity of multistable systems. <i>International Journal of Non-Linear Mechanics</i> , <b>2019</b> , 109, 140-154	2.8	11
143	Dynamical Integrity: A Novel Paradigm for Evaluating Load Carrying Capacity. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , <b>2019</b> , 27-112	0.6	3
142	Nonlinear Dynamics, Safety, and Control of Structures Liable to Interactive Unstable Buckling. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , <b>2019</b> , 167-228	0.6	1
141	Seamless variation of isometric and anisometric dynamical integrity measures in basins of erosion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2018</b> , 56, 499-507	3.7	17
140	Catenary-induced geometric nonlinearity effects on cable linear vibrations. <i>Journal of Sound and Vibration</i> , <b>2018</b> , 413, 332-353	3.9	14
139	Local and global nonlinear dynamics of thermomechanically coupled composite plates in passive thermal regime. <i>Nonlinear Dynamics</i> , <b>2018</b> , 93, 167-187	5	14
138	Avoiding/inducing dynamic buckling in a thermomechanically coupled plate: a local and global analysis of slow/fast response. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2018</b> , 474, 20180206	2.4	7
137	Bending-twisting vibrations of a rotating hub-thin-walled composite beam system. <i>Mathematics and Mechanics of Solids</i> , <b>2017</b> , 22, 1303-1325	2.3	39
136	Nonlinear model-based parameter estimation and stability analysis of an aero-pendulum subject to digital delayed control. <i>International Journal of Dynamics and Control</i> , <b>2017</b> , 5, 629-643	1.7	12

135	Reply to the Discussion on A comprehensive analysis of hardening/softening behavior of shearable planar beams with whatever axial boundary constraint by D. Genovese. <i>Meccanica</i> , <b>2017</b> , 52, 3005-3008	2.1	3
134	Multiple internal resonances and nonplanar dynamics of a cruciform beam with low torsional stiffness. <i>International Journal of Solids and Structures</i> , <b>2017</b> , 121, 117-134	3.1	8
133	Third order thermomechanically coupled laminated plate: 2D nonlinear modeling, minimal reduction, and transient/post-buckled dynamics under different thermal excitations. <i>Composite Structures</i> , <b>2017</b> , 174, 420-441	5.3	21
132	Comparing Nonlinear Free Vibrations of Timoshenko Beams with Mechanical or Geometric Curvature Definition. <i>Procedia IUTAM</i> , <b>2017</b> , 20, 34-41		16
131	Optimization of a Pseudoelastic Absorber for Vibration Mitigation. <i>Procedia Engineering</i> , <b>2017</b> , 199, 1779-1784	2	
130	Response Robustness and Safety against Jump to Contact in AFMs Controlled via Different Techniques. <i>Procedia IUTAM</i> , <b>2017</b> , 22, 184-191		1
129	Influence of the mechanics of escape on the instability of von Mises truss and its control. <i>Procedia Engineering</i> , <b>2017</b> , 199, 778-783		8
128	Nonlinear vibrations of symmetric cross-ply laminates via thermomechanically coupled reduced order models. <i>Procedia Engineering</i> , <b>2017</b> , 199, 802-807		2
127	Evaluation of different SMA models performances in the nonlinear dynamics of pseudoelastic oscillators via a comprehensive modeling framework. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 130, 458-475	5.5	18
126	Using 0-1 test to diagnose chaos on shape memory alloy dynamical systems. <i>Chaos, Solitons and Fractals</i> , <b>2017</b> , 103, 307-324	9.3	29
125	Cross-checking asymptotics and numerics in the hardening/softening behaviour of Timoshenko beams with axial end spring and variable slenderness. <i>Archive of Applied Mechanics</i> , <b>2017</b> , 87, 865-880	2.2	14
124	Influence of a locally-tailored external feedback control on the overall dynamics of a non-contact AFM model. <i>International Journal of Non-Linear Mechanics</i> , <b>2016</b> , 80, 144-159	2.8	10
123	Increasing Practical Safety of Von Mises Truss via Control of Dynamic Escape. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 849, 46-56	0.3	5
122	Revisited modelling and multimodal nonlinear oscillations of a sagged cable under support motion. <i>Meccanica</i> , <b>2016</b> , 51, 2541-2575	2.1	25
121	Exploiting Global Dynamics of a Noncontact Atomic Force Microcantilever to Enhance Its Dynamical Robustness via Numerical Control. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2016</b> , 26, 1630018	2	13
120	Nonlinear dynamics, identification and monitoring of structures: a special issue dedicated to the memory of Francesco Benedettini. <i>Meccanica</i> , <b>2016</b> , 51, 2535-2540	2.1	1
119	A comprehensive analysis of hardening/softening behaviour of shearable planar beams with whatever axial boundary constraint. <i>Meccanica</i> , <b>2016</b> , 51, 2589-2606	2.1	33
118	Axial-transversal coupling in the free nonlinear vibrations of Timoshenko beams with arbitrary slenderness and axial boundary conditions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2016</b> , 472, 20160057	2.4	23

117	Modeling, Dimension Reduction, and Nonlinear Vibrations of Thermomechanically Coupled Laminated Plates. <i>Procedia Engineering</i> , <b>2016</b> , 144, 875-882		15
116	Characterizing the nonlinear behavior of a pseudoelastic oscillator via the wavelet transform. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2016</b> , 230, 120-132	1.3	15
115	Delayed digital position control of a single-DoF system and the nonlinear behavior of the act-and-wait controller. <i>JVC/Journal of Vibration and Control</i> , <b>2016</b> , 22, 481-495	2	7
114	Global dynamics and integrity in noncontacting atomic force microscopy with feedback control. <i>Nonlinear Dynamics</i> , <b>2016</b> , 86, 2261-2277	5	13
113	Nonlinear Free Vibrations of Planar Elastic Beams: A Unified Treatment of Geometrical and Mechanical Effects. <i>Procedia IUTAM</i> , <b>2016</b> , 19, 35-42		17
112	Analytical Control of Homoclinic Bifurcation of the Hilltop Saddle in a Noncontact Atomic Force Microcantilever. <i>Procedia IUTAM</i> , <b>2016</b> , 19, 19-26		6
111	Application of a Shape Memory Absorber in Vibration Suppression. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 849, 27-35	0.3	7
110	Non-linear dynamics of a thermomechanical pseudoelastic oscillator excited by non-ideal energy sources. <i>International Journal of Non-Linear Mechanics</i> , <b>2015</b> , 77, 12-27	2.8	14
109	Stability analysis of a two-degree-of-freedom mechanical system subject to proportional derivative digital position control. <i>JVC/Journal of Vibration and Control</i> , <b>2015</b> , 21, 1539-1555	2	10
108	Periodic and localized solutions in chains of oscillators with softening or hardening cubic nonlinearity. <i>Meccanica</i> , <b>2015</b> , 50, 721-730	2.1	10
107	A Global Dynamics Perspective for System Safety From Macro- to Nanomechanics: Analysis, Control, and Design Engineering. <i>Applied Mechanics Reviews</i> , <b>2015</b> , 67,	8.6	27
106	Asymptotic analysis of a noncontact AFM microcantilever sensor with external feedback control. <i>Nonlinear Dynamics</i> , <b>2015</b> , 79, 2675-2698	5	19
105	Bifurcation analysis of a two-DoF mechanical system subject to digital position control. Part I: theoretical investigation. <i>Nonlinear Dynamics</i> , <b>2014</b> , 76, 1781-1796	5	3
104	Unified 2D continuous and reduced order modeling of thermomechanically coupled laminated plate for nonlinear vibrations. <i>Meccanica</i> , <b>2014</b> , 49, 1723-1749	2.1	21
103	Bifurcation, response scenarios and dynamic integrity in a single-mode model of noncontact atomic force microscopy. <i>Nonlinear Dynamics</i> , <b>2013</b> , 73, 101-123	5	34
102	The dynamical integrity concept for interpreting/ predicting experimental behaviour: from macro- to nano-mechanics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2013</b> , 371, 20120423	3	22
101	Analysis of chaotic non-isothermal solutions of thermomechanical shape memory oscillators. <i>European Physical Journal: Special Topics</i> , <b>2013</b> , 222, 1637-1647	2.3	31
100	Bifurcation analysis of a two-DoF mechanical system subject to digital position control. Part II. Effects of asymmetry and transition to chaos. <i>Nonlinear Dynamics</i> , <b>2013</b> , 74, 1223-1241	5	5

99	Microcantilever dynamics in tapping mode atomic force microscopy via higher eigenmodes analysis. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 224302	2.5	35
98	Influence of symmetries and imperfections on the non-linear vibration modes of archetypal structural systems. <i>International Journal of Non-Linear Mechanics</i> , <b>2013</b> , 49, 175-195	2.8	10
97	An asymptotic model for the free vibrations of a two-layer beam. <i>European Journal of Mechanics, A/Solids</i> , <b>2013</b> , 42, 441-453	3.7	15
96	Identification of regular and chaotic isothermal trajectories of a shape memory oscillator using the 0/1 test. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , <b>2013</b> , 227, 17-22	0.9	11
95	Nonlinear Bifurcation Analysis of a Single-DoF Model of a Robotic Arm Subject to Digital Position Control. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2013</b> , 8,	1.4	11
94	Influence of Axial Loads on the Nonplanar Vibrations of Cantilever Beams. <i>Shock and Vibration</i> , <b>2013</b> , 20, 1073-1092	1.1	6
93	Nonlinear Dynamics and Instability as Important Design Concerns for a Guyed Mast <b>2013</b> , 223-234		6
92	Practical Stability of Rotating Solutions in a Parametrically Excited Experimental Pendulum via Dynamical Integrity Concepts <b>2013</b> , 173-184		
91	Nonlinear curvature-based model and resonant finite-amplitude vibrations of symmetric cross-ply laminates. <i>Journal of Sound and Vibration</i> , <b>2012</b> , 331, 2836-2855	3.9	6
90	Introduction to the focus issue: fifty years of chaos: applied and theoretical. <i>Chaos</i> , <b>2012</b> , 22, 047501	3.3	9
89	Shear deformable composite plates with nonlinear curvatures: modeling and nonlinear vibrations of symmetric laminates. <i>Archive of Applied Mechanics</i> , <b>2012</b> , 82, 1627-1652	2.2	7
88	On the influence of a constant force on the appearance of period-doubling bifurcations and chaos in a harmonically excited pure cubic oscillator. <i>Chaos, Solitons and Fractals</i> , <b>2012</b> , 45, 1531-1540	9.3	3
87	Controlling practical stability and safety of mechanical systems by exploiting chaos properties. <i>Chaos</i> , <b>2012</b> , 22, 047502	3.3	14
86	Controlling Nonlinear Dynamics of Systems Liable to Unstable Interactive Buckling. <i>Procedia IUTAM</i> , <b>2012</b> , 5, 108-123		7
85	Theoretical and Experimental Nonlinear Vibrations of Sagged Elastic Cables. <i>Solid Mechanics and Its Applications</i> , <b>2012</b> , 159-210	0.4	12
84	Analytical investigation of single and double Neimark-Sacker bifurcations. <i>Periodica Polytechnica, Mechanical Engineering</i> , <b>2012</b> , 56, 13	1.8	2
83	APPROXIMATE ROTATIONAL SOLUTIONS OF PENDULUM UNDER COMBINED VERTICAL AND HORIZONTAL EXCITATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2012</b> , 22, 1250100	2	21
82	Influence of axial loads on the nonplanar vibrations of cantilever beams <b>2012</b> ,		1

81	Influence of Modal Coupling on the Nonlinear Dynamics of Augusti's Model. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2011</b> , 6,	1.4	15
80	Forced Harmonic Vibration in a Duffing Oscillator with Negative Linear Stiffness and Linear Viscous Damping <b>2011</b> , 219-276		9
79	Load carrying capacity of systems within a global safety perspective. Part I. Robustness of stable equilibria under imperfections. <i>International Journal of Non-Linear Mechanics</i> , <b>2011</b> , 46, 1232-1239	2.8	16
78	Load carrying capacity of systems within a global safety perspective. Part II. Attractor/basin integrity under dynamic excitations. <i>International Journal of Non-Linear Mechanics</i> , <b>2011</b> , 46, 1240-1251	2.8	24
77	Global dynamics and integrity of a two-dof model of a parametrically excited cylindrical shell. <i>Nonlinear Dynamics</i> , <b>2011</b> , 63, 61-82	5	45
76	Detecting stable-unstable nonlinear invariant manifold and homoclinic orbits in mechanical systems. <i>Nonlinear Dynamics</i> , <b>2011</b> , 63, 83-94	5	3
75	Experimental versus theoretical robustness of rotating solutions in a parametrically excited pendulum: A dynamical integrity perspective. <i>Physica D: Nonlinear Phenomena</i> , <b>2011</b> , 240, 814-824	3.3	47
74	CHAOS ROBUSTNESS AND STRENGTH IN THERMOMECHANICAL SHAPE MEMORY OSCILLATORS PART I: A PREDICTIVE THEORETICAL FRAMEWORK FOR THE PSEUDOELASTIC BEHAVIOR. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2011</b> , 21, 2769-2782	2	17
73	CHAOS ROBUSTNESS AND STRENGTH IN THERMOMECHANICAL SHAPE MEMORY OSCILLATORS PART II: NUMERICAL AND THEORETICAL EVALUATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2011</b> , 21, 2783-2800	2	17
72	Nonlinear dynamics and sensitivity to imperfections in Augusti's model. <i>Journal of Mechanics of Materials and Structures</i> , <b>2011</b> , 6, 1065-1078	1.2	10
71	A Generalized Continuum Formulation for Composite Microcracked Materials and Wave Propagation in a Bar. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2010</b> , 77,	2.7	23
70	RECENT ADVANCES IN CONTROL OF COMPLEX DYNAMICS IN MECHANICAL AND STRUCTURAL SYSTEMS. <i>Series on Stability, Vibration and Control of Systems - Series B</i> , <b>2010</b> , 189-237		5
69	The influence of model parameters and of the thermomechanical coupling on the behavior of shape memory devices. <i>International Journal of Non-Linear Mechanics</i> , <b>2010</b> , 45, 933-946	2.8	23
68	Numerical simulation of the soft contact dynamics of an impacting bilinear oscillator. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2010</b> , 15, 2603-2616	3.7	50
67	Modelling and transient planar dynamics of suspended cables with moving mass. <i>International Journal of Solids and Structures</i> , <b>2010</b> , 47, 2733-2744	3.1	37
66	Experimental unfolding of the nonlinear dynamics of a cable-mass suspended system around a divergence-Hopf bifurcation. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 322, 581-611	3.9	19
65	Multimode Dynamics and Out-of-Plane Drift in Suspended Cable Using the Kinematically Condensed Model. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2009</b> , 131,	1.6	8
64	Numerical Characterization of the Chaotic Nonregular Dynamics of Pseudoelastic Oscillators <b>2009</b> , 25-35		2

63	Competing Dynamic Solutions in a Parametrically Excited Pendulum: Attractor Robustness and Basin Integrity. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2008</b> , 3,	1.4	29
62	PROPAGATION PROPERTIES OF BI-COUPLED NONLINEAR OSCILLATORY CHAINS: ANALYTICAL PREDICTION AND NUMERICAL VALIDATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2008</b> , 18, 1983-1998	2	8
61	Dynamical Integrity and Control of Nonlinear Mechanical Oscillators. <i>JVC/Journal of Vibration and Control</i> , <b>2008</b> , 14, 159-179	2	57
60	Nonlinear longitudinal/transversal modal interactions in highly extensible suspended cables. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 310, 230-242	3.9	26
59	Rotating solutions and stability of parametric pendulum by perturbation method. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 310, 243-259	3.9	72
58	Space-time numerical simulation and validation of analytical predictions for nonlinear forced dynamics of suspended cables. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 315, 394-413	3.9	12
57	Control of the homoclinic bifurcation in buckled beams: Infinite dimensional vs reduced order modeling. <i>International Journal of Non-Linear Mechanics</i> , <b>2008</b> , 43, 474-489	2.8	11
56	Asymptotic analysis of linear/nonlinear vibrations of suspended cables under heavy fluid loading. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2008</b> , 217-228	0.3	1
55	Dimension reduction of homoclinic orbits of buckled beams via the non-linear normal modes technique. <i>International Journal of Non-Linear Mechanics</i> , <b>2007</b> , 42, 515-528	2.8	14
54	Two-to-one resonant multi-modal dynamics of horizontal/inclined cables. Part I: Theoretical formulation and model validation. <i>Nonlinear Dynamics</i> , <b>2007</b> , 48, 231-252	5	94
53	Two-to-one resonant multi-modal dynamics of horizontal/inclined cables. Part II: Internal resonance activation, reduced-order models and nonlinear normal modes. <i>Nonlinear Dynamics</i> , <b>2007</b> , 48, 253-274	5	67
52	The effects of kinematic condensation on internally resonant forced vibrations of shallow horizontal cables. <i>International Journal of Non-Linear Mechanics</i> , <b>2007</b> , 42, 180-195	2.8	33
51	Competing Dynamic Solutions in a Parametrically Excited Pendulum: Attractor Robustness and Basin Integrity <b>2007</b> , 1737		
50	Nonlinear Hybrid-Mode Resonant Forced Oscillations of Sagged Inclined Cables at Avoidances. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2007</b> , 2, 324-336	1.4	18
49	Control of pull-in dynamics in a nonlinear thermoelastic electrically actuated microbeam. <i>Journal of Micromechanics and Microengineering</i> , <b>2006</b> , 16, 390-401	2	80
48	Introduction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2006</b> , 364, 2269-77	3	5
47	Optimal control and anti-control of the nonlinear dynamics of a rigid block. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2006</b> , 364, 2353-81	3	9
46	Wave propagation properties in oscillatory chains with cubic nonlinearities via nonlinear map approach. <i>Chaos, Solitons and Fractals</i> , <b>2006</b> , 27, 606-617	9.3	23

45	A dynamical systems approach to the overturning of rocking blocks. <i>Chaos, Solitons and Fractals</i> , <b>2006</b> , 28, 527-542	9.3	27
44	Propagation properties of bi-coupled nonlinear oscillatory chains <b>2006</b> , 465-465		
43	Thermomechanical modelling, nonlinear dynamics and chaos in shape memory oscillators. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , <b>2005</b> , 11, 291-314	1	54
42	Identifying, evaluating, and controlling dynamical integrity measures in non-linear mechanical oscillators. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2005</b> , 63, 902-914	1.3	77
41	Dimension Reduction of Dynamical Systems: Methods, Models, Applications. <i>Nonlinear Dynamics</i> , <b>2005</b> , 41, 1-15	5	70
40	Bifurcation and Chaos in Mechanical Applications: A Dynamical Systems Approach to Their Control <b>2005</b> , 47-57		2
39	HETEROCLINIC BIFURCATIONS AND OPTIMAL CONTROL IN THE NONLINEAR ROCKING DYNAMICS OF GENERIC AND SLENDER RIGID BLOCKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2005</b> , 15, 1901-1918	2	32
38	Higher-order Melnikov functions for single-DOF mechanical oscillators: theoretical treatment and applications. <i>Mathematical Problems in Engineering</i> , <b>2004</b> , 2004, 145-168	1.1	11
37	Global optimal control and system-dependent solutions in the hardening Helmholtz-Duffing oscillator. <i>Chaos, Solitons and Fractals</i> , <b>2004</b> , 21, 1031-1046	9.3	38
36	Three-dimensional non-linear coupling and dynamic tension in the large-amplitude free vibrations of arbitrarily sagged cables. <i>Journal of Sound and Vibration</i> , <b>2004</b> , 269, 823-852	3.9	56
35	A unified control framework of the non-regular dynamics of mechanical oscillators. <i>Journal of Sound and Vibration</i> , <b>2004</b> , 278, 1051-1080	3.9	34
34	Nonlinear vibrations of suspended cablesPart II: Deterministic phenomena. <i>Applied Mechanics Reviews</i> , <b>2004</b> , 57, 479-514	8.6	109
33	Nonlinear vibrations of suspended cablesPart I: Modeling and analysis. <i>Applied Mechanics Reviews</i> , <b>2004</b> , 57, 443-478	8.6	207
32	Overturning Thresholds of a Rocking Block Subjected to Harmonic Excitation: Computer Simulations and Analytical Treatment <b>2003</b> , 259		2
31	Optimal Control of Nonregular Dynamics in a Duffing Oscillator. <i>Nonlinear Dynamics</i> , <b>2003</b> , 33, 71-86	5	56
30	Large Amplitude Three-Dimensional Free Vibrations of Inclined Sagged Elastic Cables. <i>Nonlinear Dynamics</i> , <b>2003</b> , 33, 129-154	5	46
29	Regular Nonlinear Dynamics and Bifurcations of an Impacting System under General Periodic Excitation. <i>Nonlinear Dynamics</i> , <b>2003</b> , 34, 249-268	5	15
28	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

27	Optimal numerical control of single-well to cross-well chaos transition in mechanical systems. <i>Chaos, Solitons and Fractals</i> , <b>2003</b> , 15, 173-186	9.3	22
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12	Experimental Investigation of the Nonlinear Response of a Hanging Cable. Part I: Local Analysis. <i>Nonlinear Dynamics</i> , <b>1997</b> , 14, 89-117	5	40
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10	Numerical and geometrical analysis of bifurcation and chaos for an asymmetric elastic nonlinear oscillator. <i>Nonlinear Dynamics</i> , <b>1995</b> , 7, 249-272	5	10

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8	Planar non-linear oscillations of elastic cables under superharmonic resonance conditions. <i>Journal of Sound and Vibration</i> , <b>1989</b> , 132, 353-366	3.9	37
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