

Richard H Rand

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191
papers

4,418
citations

35
h-index

59
g-index

205
ext. papers

4,903
ext. citations

3.2
avg, IF

5.52
L-index

#	Paper	IF	Citations
191	The nature of the coupling between segmental oscillators of the lamprey spinal generator for locomotion: a mathematical model. <i>Journal of Mathematical Biology</i> , 1982 , 13, 345-69	2	432
190	MODAL ANALYSIS OF A CRACKED BEAM. <i>Journal of Sound and Vibration</i> , 1997 , 207, 249-270	3.9	162
189	Bifurcation of periodic motions in two weakly coupled van der Pol oscillators. <i>International Journal of Non-Linear Mechanics</i> , 1980 , 15, 387-399	2.8	153
188	Perturbation Methods, Bifurcation Theory and Computer Algebra. <i>Applied Mathematical Sciences (Switzerland)</i> , 1987 ,	0.9	122
187	Averaging using elliptic functions: approximation of limit cycles. <i>Acta Mechanica</i> , 1990 , 81, 125-142	2.1	121
186	The Dynamics of Two Coupled van der Pol Oscillators with Delay Coupling. <i>Nonlinear Dynamics</i> , 2002 , 30, 205-221	5	110
185	The transition to chaos in a simple mechanical system. <i>International Journal of Non-Linear Mechanics</i> , 1989 , 24, 41-56	2.8	106
184	Tree size frequency distributions, plant density, age and community disturbance. <i>Ecology Letters</i> , 2003 , 6, 405-411	10	101
183	Synchronous Locking of Tidally Evolving Satellites. <i>Icarus</i> , 1996 , 122, 166-192	3.8	81
182	Limit cycle oscillations in CW laser-driven NEMS. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 1018-1026	2.5	74
181	Normal modes and global dynamics of a two-degree-of-freedom non-linear system□ Low energies. <i>International Journal of Non-Linear Mechanics</i> , 1992 , 27, 861-874	2.8	74
180	A direct method for non-linear normal modes. <i>International Journal of Non-Linear Mechanics</i> , 1974 , 9, 363-368	2.8	74
179	Spinup dynamics of axial dual-spin spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 1994 , 17, 30-37.1	2.1	71
178	Mathieu's Equation and Its Generalizations: Overview of Stability Charts and Their Features. <i>Applied Mechanics Reviews</i> , 2018 , 70,	8.6	70
177	Dynamics of two strongly coupled van der pol oscillators. <i>International Journal of Non-Linear Mechanics</i> , 1982 , 17, 143-152	2.8	69
176	Transition Curves for the Quasi-Periodic Mathieu Equation. <i>SIAM Journal on Applied Mathematics</i> , 1998 , 58, 1094-1115	1.8	68
175	The transition from phase locking to drift in a system of two weakly coupled van der pol oscillators. <i>International Journal of Non-Linear Mechanics</i> , 1988 , 23, 369-376	2.8	68

174	Frequency entrainment for micromechanical oscillator. <i>Applied Physics Letters</i> , 2003 , 83, 3281-3283	3.4	62
173	Dynamics of three coupled van der Pol oscillators with application to circadian rhythms. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007 , 12, 794-803	3.7	61
172	Dynamics of spinup through resonance. <i>International Journal of Non-Linear Mechanics</i> , 1992 , 27, 489-502	2.8	60
171	Bifurcations in a Mathieu equation with cubic nonlinearities. <i>Chaos, Solitons and Fractals</i> , 2002 , 14, 173-183	3.1	55
170	Hopf bifurcation in a DDE model of gene expression. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008 , 13, 235-242	3.7	53
169	Chaotic Motions of a Constrained Pipe Conveying Fluid: Comparison Between Simulation, Analysis, and Experiment. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1991 , 58, 559-565	2.7	53
168	A mathematical study of resonance in intact fruits and vegetables using a 3-media elastic sphere model. <i>Biosystems Engineering</i> , 1973 , 18, 141-157		53
167	Bifurcations and chaos in a forced zero-stiffness impact oscillator. <i>International Journal of Non-Linear Mechanics</i> , 1990 , 25, 417-432	2.8	52
166	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	2.8	50
165	Fractional Mathieu equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 3254-3262	3.7	49
164	Dynamics of two van der Pol oscillators coupled via a bath. <i>International Journal of Solids and Structures</i> , 2004 , 41, 2133-2143	3.1	48
163	Vibrations of Fluid-Filled Spherical and Spheroidal Shells. <i>Journal of the Acoustical Society of America</i> , 1967 , 42, 1278-1286	2.2	46
162	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	2.8	44
161	2:2:1 Resonance in the Quasiperiodic Mathieu Equation. <i>Nonlinear Dynamics</i> , 2003 , 31, 367-374	5	43
160	Frequency locking in a forced Mathieu-van der Pol-Duffing system. <i>Nonlinear Dynamics</i> , 2008 , 54, 3-12	5	40
159	Subharmonic resonance in the non-linear Mathieu equation. <i>International Journal of Non-Linear Mechanics</i> , 2002 , 37, 43-73	2.8	39
158	Shape optimization of a blunt body Vibro-wind galloping oscillator. <i>Journal of Fluids and Structures</i> , 2013 , 40, 185-200	3.1	38
157	2:1 Resonance in the delayed nonlinear Mathieu equation. <i>Nonlinear Dynamics</i> , 2007 , 50, 341-352	5	35

156	Mathematical model of a Placido disk keratometer and its implications for recovery of corneal topography. <i>Optometry and Vision Science</i> , 1997 , 74, 926-30	2.1	34
155	Dynamics of Two Strongly Coupled Relaxation Oscillators. <i>SIAM Journal on Applied Mathematics</i> , 1986 , 46, 56-67	1.8	33
154	Size-dependent species richness: trends within plant communities and across latitude. <i>Ecology Letters</i> , 2003 , 6, 631-636	10	32
153	Queues with Choice via Delay Differential Equations. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1730016	2	31
152	Global Behavior of a Nonlinear Quasiperiodic Mathieu Equation. <i>Nonlinear Dynamics</i> , 2002 , 27, 87-105	5	31
151	An Application of the Poincaré Map to the Stability of Nonlinear Normal Modes. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1980 , 47, 645-651	2.7	31
150	Nonlinear Normal Modes in Two-Degree-of-Freedom Systems. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1971 , 38, 561-561	2.7	31
149	Hopf bifurcation formula for first order differential-delay equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007 , 12, 859-864	3.7	30
148	Fluid Mechanics of Green Plants. <i>Annual Review of Fluid Mechanics</i> , 1983 , 15, 29-45	22	30
147	Master-slave locking of optomechanical oscillators over a long distance. <i>Physical Review Letters</i> , 2015 , 114, 113602	7.4	29
146	1:1 and 2:1 phase entrainment in a system of two coupled limit cycle oscillators. <i>Journal of Mathematical Biology</i> , 1984 , 20, 133	2	29
145	A higher order approximation for non-linear normal modes in two degree of freedom systems. <i>International Journal of Non-Linear Mechanics</i> , 1971 , 6, 545-547	2.8	29
144	Perturbation analysis of entrainment in a micromechanical limit cycle oscillator. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007 , 12, 1291-1301	3.7	28
143	Analysis of Frequency Locking in Optically Driven MEMS Resonators. <i>Journal of Microelectromechanical Systems</i> , 2006 , 15, 1546-1554	2.5	27
142	Perturbation solution for secondary bifurcation in the quadratically-damped Mathieu equation. <i>International Journal of Non-Linear Mechanics</i> , 2004 , 39, 491-502	2.8	27
141	Singular unlocking transition in the Winfree model of coupled oscillators. <i>Physical Review E</i> , 2007 , 75, 036218	2.4	25
140	Third-order intermodulation in a micromechanical thermal mixer. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 1244-1252	2.5	25
139	2:1:1 Resonance in the Quasi-Periodic Mathieu Equation. <i>Nonlinear Dynamics</i> , 2005 , 40, 195-203	5	25

138	An analysis of queues with delayed information and time-varying arrival rates. <i>Nonlinear Dynamics</i> , 2018 , 91, 2411-2427	5	24
137	Analytical approximation for period-doubling following a hopf bifurcation. <i>Mechanics Research Communications</i> , 1989 , 16, 117-123	2.2	22
136	A pair of van der Pol oscillators coupled by fractional derivatives. <i>Nonlinear Dynamics</i> , 2012 , 69, 313-324	5	21
135	Effect of quasiperiodic gravitational modulation on the stability of a heated fluid layer. <i>Physical Review E</i> , 2007 , 76, 056320	2.4	21
134	On the existence and bifurcation of minimal normal modes. <i>International Journal of Non-Linear Mechanics</i> , 1979 , 14, 1-12	2.8	21
133	Using delay to quench undesirable vibrations. <i>Nonlinear Dynamics</i> , 2010 , 62, 407-416	5	20
132	The Stability of Bifurcating Periodic Solutions in a Two-Degree-of-Freedom Nonlinear System. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1977 , 44, 782-784	2.7	20
131	Bifurcations in a Mathieu equation with cubic nonlinearities: Part II. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2002 , 7, 107-121	3.7	19
130	Dynamics of a nonlinear parametrically-excited PDE: 2-term truncation. <i>Mechanics Research Communications</i> , 1996 , 23, 283-289	2.2	18
129	The geometrical stability of non-linear normal modes in two degree of freedom systems. <i>International Journal of Non-Linear Mechanics</i> , 1973 , 8, 161-168	2.8	18
128	About a class of nonlinear oscillators with amplitude-independent frequency. <i>Nonlinear Dynamics</i> , 2013 , 74, 455-465	5	17
127	Role of stomatal oscillations on transpiration, assimilation and water-use efficiency of plants. <i>Ecological Modelling</i> , 1988 , 41, 27-40	3	17
126	Hopf bifurcation in a stomatal oscillator. <i>Journal of Mathematical Biology</i> , 1982 , 12, 1-11	2	17
125	Stability of the triangular points in the elliptic restricted problem of three bodies.. <i>AIAA Journal</i> , 1969 , 7, 1024-1028	2.1	17
124	Degenerate homoclinic cycles in perturbations of quadratic Hamiltonian systems. <i>Nonlinearity</i> , 1989 , 2, 405-418	1.7	16
123	Axisymmetric Vibrations of Prolate Spheroidal Shells. <i>Journal of the Acoustical Society of America</i> , 1966 , 40, 179-186	2.2	16
122	Dynamics of three coupled limit cycle oscillators with application to artificial intelligence. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 270-283	3.7	15
121	Center manifold analysis of a DDE model of gene expression. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008 , 13, 1112-1120	3.7	15

120	Analytical model of corneal surgery. <i>Journal of Biomechanical Engineering</i> , 1991 , 113, 239-41	2.1	15
119	Dynamics of coupled stomatal oscillators. <i>Journal of Mathematical Biology</i> , 1982 , 15, 131-149	2	15
118	Hopf Bifurcations in Delayed Rock-Paper-Scissors Replicator Dynamics. <i>Dynamic Games and Applications</i> , 2016 , 6, 139-156	1.1	14
117	Resonant Capture and Separatrix Crossing in Dual-Spin Spacecraft. <i>Nonlinear Dynamics</i> , 1999 , 18, 159-184	3.4	14
116	Dynamics of a nonlinear parametrically excited partial differential equation. <i>Chaos</i> , 1999 , 9, 242-253	3.3	14
115	Anchor deformations drive limit cycle oscillations in interferometrically transduced MEMS beams. <i>Finite Elements in Analysis and Design</i> , 2012 , 49, 52-57	2.2	13
114	Nonlinear control of dual-spin spacecraft during despin through precession phase lock. <i>Journal of Guidance, Control, and Dynamics</i> , 1996 , 19, 60-67	2.1	13
113	Locking of electrostatically coupled thermo-optically driven MEMS limit cycle oscillators. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 102, 92-100	2.8	12
112	Entrainment of Micromechanical Limit Cycle Oscillators in the Presence of Frequency Instability. <i>Journal of Microelectromechanical Systems</i> , 2013 , 22, 835-845	2.5	12
111	Evolutionary dynamics of a system with periodic coefficients. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 3887-3895	3.7	12
110	Nonlinear Effects on Coexistence Phenomenon in Parametric Excitation. <i>Nonlinear Dynamics</i> , 2003 , 31, 73-89	5	12
109	Nonlinear Dynamics in Queueing Theory: Determining the Size of Oscillations in Queues with Delay. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019 , 18, 279-311	2.8	12
108	Hopf Bifurcations in Two-Strategy Delayed Replicator Dynamics. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1650006	2	11
107	Dynamics of a mass-spring-pendulum system with vastly different frequencies. <i>Nonlinear Dynamics</i> , 2012 , 70, 25-41	5	11
106	Parametric Resonance of Hopf Bifurcation. <i>Nonlinear Dynamics</i> , 2005 , 39, 411-421	5	11
105	A simplified model of coupled relaxation oscillators. <i>International Journal of Non-Linear Mechanics</i> , 1987 , 22, 283-289	2.8	11
104	Torsional Vibrations of Elastic Prolate Spheroids. <i>Journal of the Acoustical Society of America</i> , 1968 , 44, 749-751	2.2	11
103	On the Stability of Hill's Equation With Four Independent Parameters. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1969 , 36, 885-886	2.7	11

102	Vibratory fruit harvesting: A non-linear theory of fruit-stem dynamics. <i>Biosystems Engineering</i> , 1970 , 15, 347-363		11
101	Nonlinear Vibrations of Two-Degree-of-Freedom Systems With Repeated Linearized Natural Frequencies. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1972 , 39, 296-297	2.7	11
100	Dynamics of a System of Two Coupled Oscillators Driven by a Third Oscillator. <i>Journal of Applied Nonlinear Dynamics</i> , 2014 , 3, 271-282	2	11
99	Transmission Dynamics of COVID-19 and Impact on Public Health Policy		11
98	Low-Power Photothermal Self-Oscillation of Bimetallic Nanowires. <i>Nano Letters</i> , 2017 , 17, 3995-4002	11.5	10
97	Dynamics of microbubble oscillators with delay coupling. <i>Nonlinear Dynamics</i> , 2013 , 71, 121-132	5	10
96	Multiple limit cycles in laser interference transduced resonators. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 52, 119-126	2.8	10
95	Three oscillator model of the heartbeat generator. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 2434-2449	3.7	10
94	Dynamics of four coupled phase-only oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008 , 13, 501-507	3.7	10
93	Coexistence phenomenon in autoparametric excitation of two degree of freedom systems. <i>International Journal of Non-Linear Mechanics</i> , 2005 , 40, 1160-1170	2.8	10
92	Subharmonic entrainment of a forced relaxation oscillator. <i>International Journal of Non-Linear Mechanics</i> , 1988 , 23, 231-239	2.8	10
91	Coupled oscillators as a model for nonlinear parametric excitation. <i>Mechanics Research Communications</i> , 1981 , 8, 263-268	2.2	10
90	Bifurcation of 4:1 subharmonics in the nonlinear mathieu equation. <i>Mechanics Research Communications</i> , 1982 , 9, 233-240	2.2	10
89	A hydrodynamical model of bordered pits in conifer tracheids. <i>Journal of Theoretical Biology</i> , 1977 , 67, 11-24	2.3	10
88	A Stochastic Analysis of Queues with Customer Choice and Delayed Information. <i>Mathematics of Operations Research</i> , 2020 , 45, 1104-1126	1.5	10
87	Dynamics of a ring of three coupled relaxation oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 1598-1608	3.7	9
86	The Damped Nonlinear Quasiperiodic Mathieu Equation Near 2:2:1 Resonance. <i>Nonlinear Dynamics</i> , 2006 , 45, 237-247	5	9
85	Chaos in a system with a periodically disappearing separatrix. <i>Nonlinear Dynamics</i> , 1990 , 1, 401-420	5	9

84	An analysis of resistance to water flow through wheat and tall fescue leaves during pressure chamber efflux experiments. <i>Plant, Cell and Environment</i> , 1985 , 8, 7-18	8.4	9
83	The dynamics of an evaporating meniscus. <i>Acta Mechanica</i> , 1978 , 29, 135-146	2.1	9
82	Straight-line backbone curve. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 2281-2288	3.7	8
81	Self-thinning and community persistence in a simple size-structured dynamical model of plant growth. <i>Journal of Mathematical Biology</i> , 2005 , 51, 333-54	2	8
80	Analysis of a Non-linear Partial Difference Equation, and Its Application to Cardiac Dynamics. <i>Journal of Difference Equations and Applications</i> , 2002 , 8, 1147-1169	1	8
79	A mathematical model of the effects of Co2 on stomatal dynamics. <i>Journal of Theoretical Biology</i> , 1983 , 101, 415-440	2.3	8
78	Dynamics of a system exhibiting the global bifurcation of a limit cycle at infinity. <i>International Journal of Non-Linear Mechanics</i> , 1985 , 20, 325-338	2.8	8
77	On the Stability of a Differential Equation With Application to the Vibrations of a Particle in the Plane. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1969 , 36, 311-313	2.7	8
76	Dynamics of an oscillator with delay parametric excitation. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 78, 66-71	2.8	7
75	Analysis of a remarkable singularity in a nonlinear DDE. <i>Nonlinear Dynamics</i> , 2017 , 90, 317-323	5	7
74	Slow Passage through Multiple Parametric Resonance Tongues. <i>JVC/Journal of Vibration and Control</i> , 2009 , 15, 1581-1600	2	7
73	Nonlinear parametric excitation of an evolutionary dynamical system. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012 , 226, 1912-1920	1.3	7
72	Autoparametric quasiperiodic excitation. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 320-327.8		7
71	A numerical investigation of the dynamics of a system of two time-delay coupled relaxation oscillators. <i>Communications on Pure and Applied Analysis</i> , 2003 , 2, 567-577	1.9	7
70	Delay-Coupled Mathieu Equations in Synchrotron Dynamics. <i>Journal of Applied Nonlinear Dynamics</i> , 2016 , 5, 337-348	2	7
69	Delay Terms in the Slow Flow. <i>Journal of Applied Nonlinear Dynamics</i> , 2016 , 5, 471-484	2	7
68	Dynamics of a delay limit cycle oscillator with self-feedback. <i>Nonlinear Dynamics</i> , 2015 , 82, 481-488	5	6
67	Analysis of laser power threshold for self oscillation in thermo-optically excited doubly supported MEMS beams. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 57, 10-15	2.8	6

66	Dynamics of microbubble oscillators with delay coupling. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 2735-2743	3.7	6
65	Stability of strongly nonlinear normal modes. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007 , 12, 1128-1132	3.7	6
64	Nonlinear Normal Modes in a System with Nonholonomic Constraints. <i>Nonlinear Dynamics</i> , 2001 , 25, 49-64	5	6
63	On the stability of the vibrations of a particle in the plane restrained by two non-identical springs. <i>International Journal of Non-Linear Mechanics</i> , 1970 , 5, 1-9	2.8	6
62	Differential-Delay Equations. <i>Nonlinear Physical Science</i> , 2011 , 83-117	0.1	6
61	Hopf Bifurcation in a Disk-Shaped NEMS 2003 , 1759		5
60	Oscillatory reaction-diffusion equations on rings. <i>Journal of Mathematical Biology</i> , 1994 , 32, 617-632	2	5
59	Resonance in a high-speed flexible-arm robot. <i>Dynamical Systems</i> , 1989 , 4, 169-188		5
58	Computer Algebra Implementation of Lie Transforms for Hamiltonian Systems: Application to the Nonlinear Stability of L4. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 1989 , 69, 275-284 ¹		5
57	Determinacy of degenerate equilibria with linear part $x'=y, y'=0$ using MACSYMA. <i>Applied Mathematics and Computation</i> , 1987 , 21, 1-19	2.7	5
56	A fluid-filled spherical shell model of the thermo-elastic behaviour of avian eggs. <i>Biosystems Engineering</i> , 1985 , 32, 95-109		5
55	The Wheel Shimmy Problem: Its Relationship to Wheel and Road Irregularities. <i>Vehicle System Dynamics</i> , 1975 , 4, 9-41	2.8	5
54	Nondegenerate Parametric Resonance in Large Ensembles of Coupled Micromechanical Cantilevers with Varying Natural Frequencies. <i>Physical Review Letters</i> , 2018 , 121, 264301	7.4	5
53	Periodically forced delay limit cycle oscillator. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 94, 216-222	2.8	4
52	Limiting the oscillations in queues with delayed information through a novel type of delay announcement. <i>Queueing Systems</i> , 2020 , 95, 281-330	1.7	4
51	Dynamics of three coupled limit cycle oscillators with vastly different frequencies. <i>Nonlinear Dynamics</i> , 2011 , 64, 131-145	5	4
50	Origin of arrhythmias in a heart model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 3707-3714	3.7	4
49	A QUASIPERIODIC MATHIEU EQUATION. <i>Series on Stability, Vibration and Control of Systems - Series B</i> , 1997 , 203-221		4

48	Relaxation Oscillations in Tidally Evolving Satellites. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1997 , 67, 111-130	1.4	4
47	A finite element analysis of the mechanical and thermal strength of avian eggs. <i>Biosystems Engineering</i> , 1986 , 33, 57-78		4
46	Computer algebra, Lie Transforms and the nonlinear stability of L4. <i>Celestial Mechanics</i> , 1988 , 45, 103-104		4
45	Stability of a Rigid Body With an Oscillating Particle: An Application of MACSYMA. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1985 , 52, 686-692	2.7	4
44	Coexistence of infinitely many large, stable, rapidly oscillating periodic solutions in time-delayed Duffing oscillators. <i>Journal of Differential Equations</i> , 2020 , 268, 5969-5995	2.1	4
43	Parametric Excitation and Evolutionary Dynamics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	3
42	Two models for the parametric forcing of a nonlinear oscillator. <i>Nonlinear Dynamics</i> , 2007 , 50, 147-160	5	3
41	Frequency Locking in a Forced Mathieu-van der Pol-Duffing System 2007 , 893		3
40	Sequences of orbits and the boundaries of the basin of attraction for two double heteroclinic orbits. <i>International Journal of Non-Linear Mechanics</i> , 1999 , 34, 1047-1059	2.8	3
39	Addendum to Approximations for solute transport through porous media with flow transverse to layering. <i>Transport in Porous Media</i> , 1987 , 2, 421	3.1	3
38	Numerical corrections of Wu's coefficients for scattering of high-frequency waves from spheres and cylinders. <i>Physical Review Letters</i> , 1985 , 55, 555-557	7.4	3
37	Geometrical dynamics: A new approach to periodic orbits around L4. <i>Celestial Mechanics</i> , 1972 , 6, 416-420		3
36	Breaking the Symmetry in Queues with Delayed Information. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021 , 31, 2130027	2	3
35	Lossless crossing of a resonance stopband during tune modulation by synchrotron oscillations. <i>New Journal of Physics</i> , 2017 , 19, 093010	2.9	2
34	Trigonometric simplification of a class of conservative nonlinear oscillators. <i>Nonlinear Dynamics</i> , 2007 , 49, 193-201	5	2
33	Non-linear modal interactions in the oscillations of a liquid drop in a gravitational field. <i>International Journal of Non-Linear Mechanics</i> , 2001 , 36, 803-812	2.8	2
32	Lie transforms applied to a non-linear parametric excitation problem. <i>International Journal of Non-Linear Mechanics</i> , 1988 , 23, 297-313	2.8	2
31	Relaxing Nonholonomic Constraints. <i>Series on Stability, Vibration and Control of Systems - Series B</i> , 2000 , 113-116		2

30	Duffing-Type Oscillators with Amplitude-Independent Period. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014 , 1-10	0.2	2
29	On the Torus Flow $Y' = A + B \cos Y + C \cos X$ and its Relation to the Quasiperiodic Mathieu Equation 1999 ,		2
28	Dynamics of a Delay Limit Cycle Oscillator with Self-Feedback. <i>Procedia IUTAM</i> , 2016 , 19, 152-160		2
27	Simplified model and analysis of a pair of coupled thermo-optical MEMS oscillators. <i>Nonlinear Dynamics</i> , 2020 , 99, 73-83	5	2
26	Synchronization characteristics of an array of coupled MEMS limit cycle oscillators. <i>International Journal of Non-Linear Mechanics</i> , 2021 , 128, 103634	2.8	2
25	MACSYMA Program to Implement Averaging Using Elliptic Functions. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1991 , 71-89	0.5	2
24	Mechanical Superheterodyne and Its Use for Low Frequency Vibrations Sensing. <i>Journal of Microelectromechanical Systems</i> , 2019 , 28, 362-371	2.5	1
23	Coupled Parametrically Driven Modes in Synchrotron Dynamics. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 107-112	0.3	1
22	On the dynamics of a thin elastica. <i>International Journal of Non-Linear Mechanics</i> , 2012 , 47, 99-107	2.8	1
21	Dynamics of a ring network of phase-only oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 3901-3913	3.7	1
20	A digital model of coupled oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 1135-1139	3.7	1
19	Dynamics of a model of two delay-coupled relaxation oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 1980-1988	3.7	1
18	DDE Model of Gene Expression: A Continuum Approach 2008 ,		1
17	Frequency Locking in a Forced Mathieu-van der Pol System 2005 , 1367		1
16	Eye movements and the enhancement of edges. <i>Journal of Mathematical Biology</i> , 1985 , 21, 273-83	2	1
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