Richard H Rand

List of Publications by Year
in descending order

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198	5,546	81743	102304
papers	citations	39 h-index	66 g-index

205	205	205	2930
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The nature of the coupling between segmental oscillators of the lamprey spinal generator for locomotion: A mathematical model. Journal of Mathematical Biology, 1982, 13, 345-369.	0.8	502
2	MODAL ANALYSIS OF A CRACKED BEAM. Journal of Sound and Vibration, 1997, 207, 249-270.	2.1	207
3	Bifurcation of periodic motions in two weakly coupled van der Pol oscillators. International Journal of Non-Linear Mechanics, 1980, 15, 387-399.	1.4	186
4	Perturbation Methods, Bifurcation Theory and Computer Algebra. Applied Mathematical Sciences (Switzerland), 1987, , .	0.4	184
5	Averaging using elliptic functions: approximation of limit cycles. Acta Mechanica, 1990, 81, 125-142.	1.1	148
6	Mathieu's Equation and Its Generalizations: Overview of Stability Charts and Their Features. Applied Mechanics Reviews, 2018, 70, .	4.5	139
7	The Dynamics of Two Coupled van der Pol Oscillators with Delay Coupling. Nonlinear Dynamics, 2002, 30, 205-221.	2.7	130
8	The transition to chaos in a simple mechanical system. International Journal of Non-Linear Mechanics, 1989, 24, 41-56.	1.4	123
9	Tree size frequency distributions, plant density, age and community disturbance. Ecology Letters, 2003, 6, 405-411.	3.0	112
10	Transition Curves for the Quasi-Periodic Mathieu Equation. SIAM Journal on Applied Mathematics, 1998, 58, 1094-1115.	0.8	91
11	Synchronous Locking of Tidally Evolving Satellites. Icarus, 1996, 122, 166-192.	1.1	90
12	Dynamics of two strongly coupled van der pol oscillators. International Journal of Non-Linear Mechanics, 1982, 17, 143-152.	1.4	89
13	Dynamics of spinup through resonance. International Journal of Non-Linear Mechanics, 1992, 27, 489-502.	1.4	87
14	Normal modes and global dynamics of a two-degree-of-freedom non-linear systemâ€”I. Low energies. International Journal of Non-Linear Mechanics, 1992, 27, 861-874.	1.4	87
15	A direct method for non-linear normal modes. International Journal of Non-Linear Mechanics, 1974, 9, 363-368.	1.4	84
16	Limit Cycle Oscillations in CW Laser-Driven NEMS. Journal of Microelectromechanical Systems, 2004, 13, 1018-1026.	1.7	84
17	Spinup dynamics of axial dual-spin spacecraft. Journal of Guidance, Control, and Dynamics, 1994, 17, 30-37.	1.6	81
18	The transition from phase locking to drift in a system of two weakly coupled van der pol oscillators. International Journal of Non-Linear Mechanics, 1988, 23, 369-376.	1.4	80

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19	Frequency entrainment for micromechanical oscillator. Applied Physics Letters, 2003, 83, 3281-3283.	1.5	73
20	Chaotic Motions of a Constrained Pipe Conveying Fluid: Comparison Between Simulation, Analysis, and Experiment. Journal of Applied Mechanics, Transactions ASME, 1991, 58, 559-565.	1.1	72
21	Dynamics of three coupled van der Pol oscillators with application to circadian rhythms. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 794-803.	1.7	71
22	Bifurcations in a Mathieu equation with cubic nonlinearities. Chaos, Solitons and Fractals, 2002, 14, 173-181.	2.5	69
23	Hopf bifurcation in a DDE model of gene expression. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 235-242.	1.7	66
24	A mathematical study of resonance in intact fruits and vegetables using a 3-media elastic sphere model. Biosystems Engineering, 1973, 18, 141-157.	0.4	64
25	Bifurcations and chaos in a forced zero-stiffness impact oscillator. International Journal of Non-Linear Mechanics, 1990, 25, 417-432.	1.4	62
26	Vibrations of Fluidâ€Filled Spherical and Spheroidal Shells. Journal of the Acoustical Society of America, 1967, 42, 1278-1286.	0.5	57
27	Normal modes and global dynamics of a two-degree-of-freedom non-linear systemâ€”II. High energies. International Journal of Non-Linear Mechanics, 1992, 27, 875-888.	1.4	56
28	Dynamics of two van der Pol oscillators coupled via a bath. International Journal of Solids and Structures, 2004, 41, 2133-2143.	1.3	56
29	Fractional Mathieu equation. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3254-3262.	1.7	56
30	Shape optimization of a blunt body Vibro-wind galloping oscillator. Journal of Fluids and Structures, 2013, 40, 185-200.	1.5	54
31	Non-linear dynamics of a system of coupled oscillators with essential stiffness non-linearities. International Journal of Non-Linear Mechanics, 2004, 39, 1079-1091.	1.4	50
32	Frequency locking in a forced Mathieuâ€“van der Polâ€“Duffing system. Nonlinear Dynamics, 2008, 54, 3-12.	2.7	49
33	Subharmonic resonance in the non-linear Mathieu equation. International Journal of Non-Linear Mechanics, 2002, 37, 43-73.	1.4	46
34	2:2:1 Resonance in the Quasiperiodic Mathieu Equation. Nonlinear Dynamics, 2003, 31, 367-374.	2.7	46
35	Fluid Mechanics of Green Plants. Annual Review of Fluid Mechanics, 1983, 15, 29-45.	10.8	41
36	Nonlinear Normal Modes in Two-Degree-of-Freedom Systems. Journal of Applied Mechanics, Transactions ASME, 1971, 38, 561-561.	1.1	40

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37	1?1 and 2?1 phase entrainment in a system of two coupled limit cycle oscillators. Journal of Mathematical Biology, 1984, 20, 133.	0.8	40
38	2:1 Resonance in the delayed nonlinear Mathieu equation. Nonlinear Dynamics, 2007, 50, 341-352.	2.7	40
39	Queues with Choice via Delay Differential Equations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730016.	0.7	40
40	An Application of the PoincareÂ´ Map to the Stability of Nonlinear Normal Modes. Journal of Applied Mechanics, Transactions ASME, 1980, 47, 645-651.	1.1	39
41	Dynamics of Two Strongly Coupled Relaxation Oscillators. SIAM Journal on Applied Mathematics, 1986, 46, 56-67.	0.8	39
42	Mathematical Model of a Placido Disk Keratometer and Its Implications for Recovery of Corneal Topography. Optometry and Vision Science, 1997, 74, 926-930.	0.6	39
43	Global Behavior of a Nonlinear Quasiperiodic Mathieu Equation. Nonlinear Dynamics, 2002, 27, 87-105.	2.7	39
44	A higher order approximation for non-linear normal modes in two degree of freedom systems. International Journal of Non-Linear Mechanics, 1971, 6, 545-547.	1.4	37
45	Size-dependent species richness: trends within plant communities and across latitude. Ecology Letters, 2003, 6, 631-636.	3.0	37
46	Master-Slave Locking of Optomechanical Oscillators over a Long Distance. Physical Review Letters, 2015, 114, 113602.	2.9	37
47	Singular unlocking transition in the Winfree model of coupled oscillators. Physical Review E, 2007, 75, 036218.	0.8	34
48	An analysis of queues with delayed information and time-varying arrival rates. Nonlinear Dynamics, 2018, 91, 2411-2427.	2.7	34
49	Perturbation solution for secondary bifurcation in the quadratically-damped Mathieu equation. International Journal of Non-Linear Mechanics, 2004, 39, 491-502.	1.4	33
50	Perturbation analysis of entrainment in a micromechanical limit cycle oscillator. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 1291-1301.	1.7	32
51	Hopf bifurcation formula for first order differential-delay equations. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 859-864.	1.7	32
52	2:1:1 Resonance in the Quasi-Periodic Mathieu Equation. Nonlinear Dynamics, 2005, 40, 195-203.	2.7	31
53	Third-order intermodulation in a micromechanical thermal mixer. Journal of Microelectromechanical Systems, 2005, 14, 1244-1252.	1.7	30
54	Analysis of Frequency Locking in Optically Driven MEMS Resonators. Journal of Microelectromechanical Systems, 2006, 15, 1546-1554.	1.7	30

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55	Effect of quasiperiodic gravitational modulation on the stability of a heated fluid layer. Physical Review E, 2007, 76, 056320.	0.8	28
56	Nonlinear Dynamics in Queueing Theory: Determining the Size of Oscillations in Queues with Delay. SIAM Journal on Applied Dynamical Systems, 2019, 18, 279-311.	0.7	28
57	The Stability of Bifurcating Periodic Solutions in a Two-Degree-of-Freedom Nonlinear System. Journal of Applied Mechanics, Transactions ASME, 1977, 44, 782-784.	1.1	25
58	Hopf bifurcation in a stomatal oscillator. Journal of Mathematical Biology, 1982, 12, 1-11.	0.8	24
59	Analytical approximation for period-doubling following a hopf bifurcation. Mechanics Research Communications, 1989, 16, 117-123.	1.0	24
60	Using delay to quench undesirable vibrations. Nonlinear Dynamics, 2010, 62, 407-416.	2.7	24
61	Hopf Bifurcations in Delayed Rockâ€“Paperâ€“Scissors Replicator Dynamics. Dynamic Games and Applications, 2016, 6, 139-156.	1.1	24
62	Stability of the triangular points in the elliptic restricted problem of three bodies.. AIAA Journal, 1969, 7, 1024-1028.	1.5	23
63	On the existence and bifurcation of minimal normal modes. International Journal of Non-Linear Mechanics, 1979, 14, 1-12.	1.4	23
64	A pair of van der Pol oscillators coupled by fractional derivatives. Nonlinear Dynamics, 2012, 69, 313-324.	2.7	23
65	Computer Algebra Implementation of Lie Transforms for Hamiltonian Systems: Application to the Nonlinear Stability ofL4. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1989, 69, 275-284.	0.9	22
66	Bifurcations in a Mathieu equation with cubic nonlinearities: Part II. Communications in Nonlinear Science and Numerical Simulation, 2002, 7, 107-121.	1.7	22
67	Locking of electrostatically coupled thermo-optically driven MEMS limit cycle oscillators. International Journal of Non-Linear Mechanics, 2018, 102, 92-100.	1.4	21
68	Dynamics of a nonlinear parametrically-excited PDE: 2-term truncation. Mechanics Research Communications, 1996, 23, 283-289.	1.0	20
69	Resonant Capture and Separatrix Crossing in Dual-Spin Spacecraft. Nonlinear Dynamics, 1999, 18, 159-184.	2.7	20
70	Dynamics of three coupled limit cycle oscillators with application to artificial intelligence. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 270-283.	1.7	20
71	The geometrical stability of non-linear normal modes in two degree of freedom systems. International Journal of Non-Linear Mechanics, 1973, 8, 161-168.	1.4	19
72	Role of stomatal oscillations on transpiration, assimilation and water-use efficiency of plants. Ecological Modelling, 1988, 41, 27-40.	1.2	19

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73	About a class of nonlinear oscillators with amplitude-independent frequency. Nonlinear Dynamics, 2013, 74, 455-465.	2.7	19
74	Vibratory fruit harvesting: A non-linear theory of fruit-stem dynamics. Biosystems Engineering, 1970, 15, 347-363.	0.4	18
75	Dynamics of coupled stomatal oscillators. Journal of Mathematical Biology, 1982, 15, 131-149.	0.8	18
76	Degenerate homoclinic cycles in perturbations of quadratic Hamiltonian systems. Nonlinearity, 1989, 2, 405-418.	0.6	18
77	Dynamics of a nonlinear parametrically excited partial differential equation. Chaos, 1999, 9, 242-253.	1.0	18
78	Axisymmetric Vibrations of Prolate Spheroidal Shells. Journal of the Acoustical Society of America, 1966, 40, 179-186.	0.5	17
79	Nonlinear Effects on Coexistence Phenomenon in Parametric Excitation. Nonlinear Dynamics, 2003, 31, 73-89.	2.7	17
80	Center manifold analysis of a DDE model of gene expression. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1112-1120.	1.7	17
81	Dynamics of a massâ€“springâ€“pendulum system with vastly different frequencies. Nonlinear Dynamics, 2012, 70, 25-41.	2.7	17
82	Anchor deformations drive limit cycle oscillations in interferometrically transduced MEMS beams. Finite Elements in Analysis and Design, 2012, 49, 52-57.	1.7	17
83	On the Stability of Hillâ€™s Equation With Four Independent Parameters. Journal of Applied Mechanics, Transactions ASME, 1969, 36, 885-886.	1.1	16
84	On the Stability of a Differential Equation With Application to the Vibrations of a Particle in the Plane. Journal of Applied Mechanics, Transactions ASME, 1969, 36, 311-313.	1.1	15
85	Analytical Model of Corneal Surgery. Journal of Biomechanical Engineering, 1991, 113, 239-241.	0.6	15
86	Nonlinear control of dual-spin spacecraft during despin through precession phase lock. Journal of Guidance, Control, and Dynamics, 1996, 19, 60-67.	1.6	15
87	Nonlinear Vibrations of Two-Degree-of-Freedom Systems With Repeated Linearized Natural Frequencies. Journal of Applied Mechanics, Transactions ASME, 1972, 39, 296-297.	1.1	14
88	Bifurcation of 4:1 subharmonics in the nonlinear mathieu equation. Mechanics Research Communications, 1982, 9, 233-240.	1.0	14
89	Coexistence phenomenon in autoparametric excitation of two degree of freedom systems. International Journal of Non-Linear Mechanics, 2005, 40, 1160-1170.	1.4	14
90	Parametric Resonance of Hopf Bifurcation. Nonlinear Dynamics, 2005, 39, 411-421.	2.7	14

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91	Evolutionary dynamics of a system with periodic coefficients. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 3887-3895.	1.7	14
92	Dynamics of microbubble oscillators with delay coupling. Nonlinear Dynamics, 2013, 71, 121-132.	2.7	14
93	Hopf Bifurcations in Two-Strategy Delayed Replicator Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650006.	0.7	14
94	A Stochastic Analysis of Queues with Customer Choice and Delayed Information. Mathematics of Operations Research, 2020, 45, 1104-1126.	0.8	14
95	Dynamics of a System of Two Coupled Oscillators Driven by a Third Oscillator. Journal of Applied Nonlinear Dynamics, 2014, 3, 271-282.	0.1	14
96	Torsional Vibrations of Elastic Prolate Spheroids. Journal of the Acoustical Society of America, 1968, 44, 749-751.	0.5	13
97	A hydrodynamical model of bordered pits in conifer tracheids. Journal of Theoretical Biology, 1977, 67, 11-24.	0.8	13
98	A mathematical model of the effects of Co2 on stomatal dynamics. Journal of Theoretical Biology, 1983, 101, 415-440.	0.8	13
99	A simplified model of coupled relaxation oscillators. International Journal of Non-Linear Mechanics, 1987, 22, 283-289.	1.4	13
100	Subharmonic entrainment of a forced relaxation oscillator. International Journal of Non-Linear Mechanics, 1988, 23, 231-239.	1.4	13
101	Three oscillator model of the heartbeat generator. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2434-2449.	1.7	13
102	Entrainment of Micromechanical Limit Cycle Oscillators in the Presence of Frequency Instability. Journal of Microelectromechanical Systems, 2013, 22, 835-845.	1.7	13
103	Straight-line backbone curve. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2281-2288.	1.7	13
104	The dynamics of an evaporating meniseus. Acta Mechanica, 1978, 29, 135-146.	1.1	12
105	Coupled oscillators as a model for nonlinear parametric excitation. Mechanics Research Communications, 1981, 8, 263-268.	1.0	12
106	The Damped Nonlinear Quasiperiodic Mathieu Equation Near 2:2:1 Resonance. Nonlinear Dynamics, 2006, 45, 237-247.	2.7	12
107	Chaos in a system with a periodically disappearing separatrix. Nonlinear Dynamics, 1990, 1, 401-420.	2.7	11
108	Low-Power Photothermal Self-Oscillation of Bimetallic Nanowires. Nano Letters, 2017, 17, 3995-4002.	4.5	11

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109	Limiting the oscillations in queues with delayed information through a novel type of delay announcement. Queueing Systems, 2020, 95, 281-330.	0.6	11
110	An analysis of resistance to water flow through wheat and tall fescue leaves during pressure chamber efflux experiments. Plant, Cell and Environment, 1985, 8, 7-18.	2.8	10
111	Dynamics of a system exhibiting the global bifurcation of a limit cycle at infinity. International Journal of Non-Linear Mechanics, 1985, 20, 325-338.	1.4	10
112	Analysis of a Non-linear Partial Difference Equation, and Its Application to Cardiac Dynamics. Journal of Difference Equations and Applications, 2002, 8, 1147-1169.	0.7	10
113	Dynamics of four coupled phase-only oscillators. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 501-507.	1.7	10
114	Dynamics of a ring of three coupled relaxation oscillators. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1598-1608.	1.7	10
115	Dynamics of microbubble oscillators with delay coupling. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2735-2743.	1.7	10
116	Multiple limit cycles in laser interference transduced resonators. International Journal of Non-Linear Mechanics, 2013, 52, 119-126.	1.4	10
117	Differential-Delay Equations. Nonlinear Physical Science, 2011, , 83-117.	0.2	10
118	Self-thinning and community persistence in a simple size-structured dynamical model of plant growth. Journal of Mathematical Biology, 2005, 51, 333-354.	0.8	9
119	Coexistence of infinitely many large, stable, rapidly oscillating periodic solutions in time-delayed Duffing oscillators. Journal of Differential Equations, 2020, 268, 5969-5995.	1.1	9
120	Synchronization characteristics of an array of coupled MEMS limit cycle oscillators. International Journal of Non-Linear Mechanics, 2021, 128, 103634.	1.4	9
121	A numerical investigation of the dynamics of a system of two time-delay coupled relaxation oscillators. Communications on Pure and Applied Analysis, 2003, 2, 567-577.	0.4	9
122	The Wheel Shimmy Problem: Its Relationship to Wheel and Road Irregularities. Vehicle System Dynamics, 1975, 4, 9-41.	2.2	8
123	Stability of strongly nonlinear normal modes. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 1128-1132.	1.7	8
124	Autoparametric quasiperiodic excitation. International Journal of Non-Linear Mechanics, 2008, 43, 320-327.	1.4	8
125	Slow Passage through Multiple Parametric Resonance Tongues. JVC/Journal of Vibration and Control, 2009, 15, 1581-1600.	1.5	8
126	Nonlinear parametric excitation of an evolutionary dynamical system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 1912-1920.	1.1	8

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127	Dynamics of an oscillator with delay parametric excitation. International Journal of Non-Linear Mechanics, 2016, 78, 66-71.	1.4	8
128	Analysis of a remarkable singularity in a nonlinear DDE. Nonlinear Dynamics, 2017, 90, 317-323.	2.7	8
129	Nondegenerate Parametric Resonance in Large Ensembles of Coupled Micromechanical Cantilevers with Varying Natural Frequencies. Physical Review Letters, 2018, 121, 264301.	2.9	8
130	Delay-Coupled Mathieu Equations in Synchrotron Dynamics. Journal of Applied Nonlinear Dynamics, 2016, 5, 337-348.	0.1	8
131	Delay Terms in the Slow Flow. Journal of Applied Nonlinear Dynamics, 2016, 5, 471-484.	0.1	8
132	On the stability of the vibrations of a particle in the plane restrained by two non-identical springs. International Journal of Non-Linear Mechanics, 1970, 5, 1-9.	1.4	7
133	Analysis of laser power threshold for self oscillation in thermo-optically excited doubly supported MEMS beams. International Journal of Non-Linear Mechanics, 2013, 57, 10-15.	1.4	7
134	Dynamics of a delay limit cycle oscillator with self-feedback. Nonlinear Dynamics, 2015, 82, 481-488.	2.7	7
135	A finite element analysis of the mechanical and thermal strength of avian eggs. Biosystems Engineering, 1986, 33, 57-78.	0.4	6
136	Determinacy of degenerate equilibria with linear part x'=y, y'= 0 using MACSYMA. Applied Mathematics and Computation, 1987, 21, 1-19.	1.4	6
137	Oscillatory reaction-diffusion equations on rings. Journal of Mathematical Biology, 1994, 32, 617-632.	0.8	6
138	A QUASIPERIODIC MATHIEU EQUATION. Series on Stability, Vibration and Control of Systems - Series B, 1997, , 203-221.	0.2	6
139	Nonlinear Normal Modes in a System with Nonholonomic Constraints. Nonlinear Dynamics, 2001, 25, 49-64.	2.7	6
140	Hopf Bifurcation in a Disk-Shaped NEMS. , 2003, , 1759.		6
141	Dynamics of three coupled limit cycle oscillators withÂvastlyÂdifferent frequencies. Nonlinear Dynamics, 2011, 64, 131-145.	2.7	6
142	Periodically forced delay limit cycle oscillator. International Journal of Non-Linear Mechanics, 2017, 94, 216-222.	1.4	6
143	MACSYMA Program to Implement Averaging Using Elliptic Functions. The IMA Volumes in Mathematics and Its Applications, 1991, , 71-89.	0.5	6
144	Stability of a Rigid Body With an Oscillating Particle: An Application of MACSYMA. Journal of Applied Mechanics, Transactions ASME, 1985, 52, 686-692.	1.1	5

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145	A fluid-filled spherical shell model of the thermo-elastic behaviour of avian eggs. Biosystems Engineering, 1985, 32, 95-109.	0.4	5
146	Computer algebra, Lie Transforms and the nonlinear stability of L4. Celestial Mechanics, 1988, 45, 103-104.	0.1	5
147	Resonance in a high-speed flexible-arm robot. Dynamical Systems, 1989, 4, 169-188.	0.7	5
148	Relaxation Oscillations in Tidally Evolving Satellites. Celestial Mechanics and Dynamical Astronomy, 1997, 67, 111-130.	0.5	5
149	Origin of arrhythmias in a heart model. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3707-3714.	1.7	5
150	Parametric Excitation and Evolutionary Dynamics. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	5
151	Simplified model and analysis of a pair of coupled thermo-optical MEMS oscillators. Nonlinear Dynamics, 2020, 99, 73-83.	2.7	5
152	What limits the oscillationsâ€™ amplitude in the single-branch pulsating heat pipe. Nonlinear Dynamics, 2022, 108, 27-59.	2.7	5
153	Numerical Corrections of Wu's Coefficients for Scattering of High-Frequency Waves from Spheres and Cylinders. Physical Review Letters, 1985, 55, 555-557.	2.9	4
154	Lie transforms applied to a non-linear parametric excitation problem. International Journal of Non-Linear Mechanics, 1988, 23, 297-313.	1.4	4
155	Sequences of orbits and the boundaries of the basin of attraction for two double heteroclinic orbits. International Journal of Non-Linear Mechanics, 1999, 34, 1047-1059.	1.4	4
156	Frequency Locking in a Forced Mathieu-van der Pol-Duffing System. , 2007, , 893.		4
157	Dynamics of a Delay Limit Cycle Oscillator with Self-Feedback. Procedia IUTAM, 2016, 19, 152-160.	1.2	4
158	Breaking the Symmetry in Queues with Delayed Information. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2130027.	0.7	4
159	Dynamics of a Quasiperiodically-Forced Mathieu Oscillator. Solid Mechanics and Its Applications, 1999, , 61-70.	0.1	4
160	On the Torus Flow Yâ€² = A + B cos Y + C cos X and its Relation to the Quasiperiodic Mathieu Equation. , 1999, , .		4
161	Geometrical dynamics: A new approach to periodic orbits aroundL 4. Celestial Mechanics, 1972, 6, 416-420.	0.1	3
162	Addendum to ?approximations for solute transport through porous media with flow transverse to layering?. Transport in Porous Media, 1987, 2, 421.	1.2	3

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163	Two models for the parametric forcing of a nonlinear oscillator. Nonlinear Dynamics, 2007, 50, 147-160.	2.7	3
164	On the dynamics of a thin elastica. International Journal of Non-Linear Mechanics, 2012, 47, 99-107.	1.4	3
165	Dynamics of a System of Two Coupled Oscillators Which are Driven by a Third Oscillator. , 2014, , .		3
166	The Dynamics of One Way Coupling in a System of Nonlinear Mathieu Equations. The Open Mechanical Engineering Journal, 2018, 12, 108-123.	0.3	3
167	Non-linear modal interactions in the oscillations of a liquid drop in a gravitational field. International Journal of Non-Linear Mechanics, 2001, 36, 803-812.	1.4	2
168	Trigonometric simplification of a class of conservative nonlinear oscillators. Nonlinear Dynamics, 2007, 49, 193-201.	2.7	2
169	Lossless crossing of a resonance stopband during tune modulation by synchrotron oscillations. New Journal of Physics, 2017, 19, 093010.	1.2	2
170	Mechanical Superheterodyne and Its Use for Low Frequency Vibrations Sensing. Journal of Microelectromechanical Systems, 2019, 28, 362-371.	1.7	2
171	Coexisting modes and bifurcation structure in a pair of coupled detuned third order oscillators. International Journal of Non-Linear Mechanics, 2020, 122, 103464.	1.4	2
172	Unbounded sequences of stable limit cycles in the delayed Duffing equation: an exact analysis. Nonlinear Dynamics, 2021, 103, 503-515.	2.7	2
173	Duffing-Type Oscillators with Amplitude-Independent Period. Springer Proceedings in Mathematics and Statistics, 2014, , 1-10.	0.1	2
174	Eye movements and the enhancement of edges. Journal of Mathematical Biology, 1985, 21, 273-283.	0.8	1
175	Nonlinear Effects on Coexistence Phenomenon in Parametric Excitation. , 2002, , 425.		1
176	Frequency Locking in a Forced Mathieu-van der Pol System. , 2005, , 1367.		1
177	DDE Model of Gene Expression: A Continuum Approach. , 2008, , .		1
178	Dynamics of a ring network of phase-only oscillators. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3901-3913.	1.7	1
179	Dynamics of a model of two delay-coupled relaxation oscillators. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1980-1988.	1.7	1
180	Fractional Mathieu Equation. , 2010, , .		1

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181	A digital model of coupled oscillators. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 1135-1139.	1.7	1
182	Dynamics of Coupled Bubble Oscillators With Delay. , 2009, , .		1
183	Bifurcations in a Mathieu Equation With Cubic Nonlinearities: Part II. , 2002, , .		1
184	A Model of Evolutionary Dynamics with Quasiperiodic Forcing. Journal of Applied Nonlinear Dynamics, 2015, 4, 131-140.	0.1	1
185	Delay Differential Equations in the Dynamics of Gene Copying. , 2007, , .		1
186	Dynamics of a System of Two Coupled MEMS Oscillators. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2020, , 225-233.	0.1	1
187	Bistability in Coupled Opto-Thermal Micro-Oscillators. Journal of Microelectromechanical Systems, 2022, 31, 580-588.	1.7	1
188	On the Stability of the Vibrations of Two Coupled Particles in the Plane. Journal of Applied Mechanics, Transactions ASME, 1969, 36, 417-419.	1.1	0
189	On the Stability of a Differential Equation With Application to Parametrically Excited Systems. Journal of Applied Mechanics, Transactions ASME, 1970, 37, 218-220.	1.1	0
190	2:2:1 Resonance in the Quasiperiodic Mathieu Equation. , 2003, , 2155.		0
191	Alternate Models of Replicator Dynamics. , 2013, , .		0
192	Disappearance of Resonance Tongues. , 2013, , .		0
193	Hopf Bifurcations in Two-Player Delayed Replicator Dynamics. , 2014, , .		0
194	A Model of Evolutionary Dynamics with Quasiperiodic Forcing. Procedia IUTAM, 2016, 19, 11-18.	1.2	0
195	Multiple Limit Cycles in Laser Interference Transduced Resonators. , 2011, , .		0
196	Two Paths to Isochronicity in a Class of One Degree of Freedom Oscillators. , 2013, , .		0
197	Three Ways of Treating a Linear Delay Differential Equation. Springer Proceedings in Physics, 2018, , 251-257.	0.1	0
198	Queues with Delayed Information: A Dynamical Systems Perspective. SIAM Journal on Applied Dynamical Systems, 2022, 21, 676-713.	0.7	0