Marian Wiercigroch

List of Publications by Year
in descending order

196 papers	6,225 citations	66234 42 h-index	98622 67 g-index
210 all docs	210 docs citations	210 times ranked	2065 citing authors

#	Article	IF	Citations
1	Sources of nonlinearities, chatter generation and suppression in metal cutting. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2001, 359, 663-693.	1.6	215
2	Archetypal oscillator for smooth and discontinuous dynamics. Physical Review E, 2006, 74, 046218.	0.8	205
3	Hysteretic effects of dry friction: modelling and experimental studies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 747-765.	1.6	161
4	Piecewise linear approach to an archetypal oscillator for smooth and discontinuous dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 635-652.	1.6	121
5	Frictional chatter in orthogonal metal cutting. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2001, 359, 713-738.	1.6	116
6	Stability analysis of a state dependent delayed, coupled two DOF model of drill-stringvibration. Journal of Sound and Vibration, 2013, 332, 2575-2592.	2.1	111
7	Unveiling complexity of drill–string vibrations: Experiments and modelling. International Journal of Mechanical Sciences, 2015, 101-102, 324-337.	3.6	111
8	Experimental study of impact oscillator with one-sided elastic constraint. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 679-705.	1.6	109
9	Modelling of high frequency vibro-impact drilling. International Journal of Mechanical Sciences, 2015, 91, 110-119.	3.6	106
10	Modelling of a vibro-impact capsule system. International Journal of Mechanical Sciences, 2013, 66, 2-11.	3.6	103
11	Rotating orbits of a parametrically-excited pendulum. Chaos, Solitons and Fractals, 2005, 23, 1537-1548.	2.5	102
12	Bifurcation analysis of an impact oscillator with a one-sided elastic constraint near grazing. Physica D: Nonlinear Phenomena, 2010, 239, 312-321.	1.3	102
13	Nonlinear dynamics of the quasi-zero-stiffness SD oscillator based upon the local and global bifurcation analyses. Nonlinear Dynamics, 2017, 87, 987-1014.	2.7	98
14	Modeling of an impact system with a drift. Physical Review E, 2001, 64, 056224.	0.8	94
15	Dynamics of ultrasonic percussive drilling of hard rocks. Journal of Sound and Vibration, 2005, 280, 739-757.	2.1	94
16	Approximate analytical solutions for oscillatory and rotational motion of a parametric pendulum. Nonlinear Dynamics, 2006, 47, 311-320.	2.7	93
17	The limit case response of the archetypal oscillator for smooth and discontinuous dynamics. International Journal of Non-Linear Mechanics, 2008, 43, 462-473.	1.4	93
18	Rotating solutions and stability of parametric pendulum by perturbation method. Journal of Sound and Vibration, 2008, 310, 243-259.	2.1	84

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19	Grazing-induced bifurcations in impact oscillators with elastic and rigid constraints. International Journal of Mechanical Sciences, 2017, 127, 204-214.	3.6	84
20	Reduced-order modelling of vortex-induced vibration of catenary riser. Ocean Engineering, 2009, 36, 1404-1414.	1.9	80
21	Vibro-impact responses of capsule system with various friction models. International Journal of Mechanical Sciences, 2013, 72, 39-54.	3.6	79
22	Forward and backward motion control of a vibro-impact capsule system. International Journal of Non-Linear Mechanics, 2015, 70, 30-46.	1.4	78
23	Identification of chaos in a cutting process by the 0â€"1 test. Chaos, Solitons and Fractals, 2009, 40, 2095-2101.	2.5	73
24	Regular and chaotic dynamics of a discontinuously nonlinear rotor system. Chaos, Solitons and Fractals, 2002, 13, 1231-1242.	2.5	68
25	Experimental verification of the vibro-impact capsule model. Nonlinear Dynamics, 2016, 83, 1029-1041.	2.7	67
26	Piecewise approximate analytical solutions for a Jeffcott rotor with a snubber ring. International Journal of Mechanical Sciences, 2002, 44, 475-488.	3.6	66
27	Bifurcation analysis of periodic orbits of a non-smooth Jeffcott rotor model. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2571-2580.	1.7	66
28	Modelling of frictional chatter in metal cutting. International Journal of Mechanical Sciences, 2014, 89, 167-176.	3.6	65
29	2DOF CFD calibrated wake oscillator model to investigate vortex-induced vibrations. International Journal of Mechanical Sciences, 2017, 127, 176-190.	3.6	65
30	Dynamics of a vertical riser with weak structural nonlinearity excited by wakes. Journal of Sound and Vibration, 2008, 315, 685-699.	2.1	58
31	Two-sided damping constraint control strategy for high-performance vibration isolation and end-stop impact protection. Nonlinear Dynamics, 2016, 86, 2129-2144.	2.7	58
32	Modelling of Ground Moling Dynamics by an Impact Oscillator with a Frictional Slider. Meccanica, 2003, 38, 85-97.	1.2	54
33	The nature of the normal form map for soft impacting systems. International Journal of Non-Linear Mechanics, 2008, 43, 504-513.	1.4	54
34	Experimental verification of Jeffcott rotor model with preloaded snubber ring. Journal of Sound and Vibration, 2006, 298, 907-917.	2.1	52
35	Invisible grazings and dangerous bifurcations in impacting systems: The problem of narrow-band chaos. Physical Review E, 2009, 79, 037201.	0.8	52
36	COMPLEX DYNAMICS OF BILINEAR OSCILLATOR CLOSE TO GRAZING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3801-3817.	0.7	52

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37	Experimental studies of forward and backward whirls of drill-string. Mechanical Systems and Signal Processing, 2018, 100, 454-465.	4.4	52
38	Analytical drift reconstruction for visco-elastic impact oscillators operating in periodic and chaotic regimes. Chaos, Solitons and Fractals, 2004, 19, 151-161.	2.5	48
39	Dynamics of a nearly symmetrical piecewise linear oscillator close to grazing incidence: Modelling and experimental verification. Nonlinear Dynamics, 2006, 46, 225-238.	2.7	48
40	Low-dimensional maps for piecewise smooth oscillators. Journal of Sound and Vibration, 2007, 305, 750-771.	2.1	47
41	Dynamics of the nearly parametric pendulum. International Journal of Non-Linear Mechanics, 2011, 46, 436-442.	1.4	45
42	Bifurcation analysis of a piecewise-linear impact oscillator with drift. Nonlinear Dynamics, 2014, 77, 213-227.	2.7	45
43	A modified LuGre friction model for an accurate prediction of friction force in the pure sliding regime. International Journal of Non-Linear Mechanics, 2016, 80, 122-131.	1.4	44
44	Drill-string vibration analysis using non-smooth dynamics approach. Nonlinear Dynamics, 2012, 70, 1017-1035.	2.7	43
45	Two-dimensional map for impact oscillator with drift. Physical Review E, 2004, 70, 036201.	0.8	42
46	Calibration and comparison of VIV wake oscillator models for low mass ratio structures. International Journal of Mechanical Sciences, 2018, 142-143, 547-560.	3.6	42
47	Suppression of drill-string stick–slip vibration by sliding mode control: Numerical and experimental studies. European Journal of Applied Mathematics, 2018, 29, 805-825.	1.4	42
48	A novel smooth and discontinuous oscillator with strong irrational nonlinearities. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1832-1843.	2.0	41
49	Experimental studies of the resultant contact forces in drillbit–rock interaction. International Journal of Mechanical Sciences, 2015, 91, 3-11.	3.6	41
50	Investigation of two different friction models from the perspective of friction-induced vibrations. Tribology International, 2015, 90, 185-197.	3.0	41
51	Vibration energy flow transmission in systems with Coulomb friction. International Journal of Mechanical Sciences, 2022, 214, 106932.	3.6	41
52	Transient tumbling chaos and damping identification for parametric pendulum. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 767-784.	1.6	40
53	Singularities in soft-impacting systems. Physica D: Nonlinear Phenomena, 2012, 241, 553-565.	1.3	40
54	Galerkin projections for state-dependent delay differential equations with applications to drilling. Applied Mathematical Modelling, 2013, 37, 1705-1722.	2.2	40

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55	Dynamics of vibro-impact drilling with linear and nonlinear rock models. International Journal of Mechanical Sciences, 2018, 146-147, 200-210.	3.6	40
56	Bifurcation analysis of a preloaded Jeffcott rotor. Chaos, Solitons and Fractals, 2003, 15, 407-416.	2.5	39
57	Modelling and experimental verification of an asymmetric Jeffcott rotor with radial clearance. Journal of Sound and Vibration, 2015, 334, 86-97.	2.1	39
58	Bifurcation techniques for stiffness identification of an impact oscillator. Communications in Nonlinear Science and Numerical Simulation, 2016, 41, 19-31.	1.7	39
59	Material removal and surface generation in longitudinal-torsional ultrasonic assisted milling. International Journal of Mechanical Sciences, 2022, 227, 107375.	3.6	39
60	Path-following analysis of the dynamical response of a piecewise-linear capsule system. Communications in Nonlinear Science and Numerical Simulation, 2016, 37, 102-114.	1.7	38
61	BIFURCATION CONTROL OF A PARAMETRIC PENDULUM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250111.	0.7	37
62	Multi-modes approach to modelling of vortex-induced vibration. International Journal of Non-Linear Mechanics, 2016, 80, 40-51.	1.4	37
63	Cumulative effect of structural nonlinearities: chaotic dynamics of cantilever beam system with impacts. Chaos, Solitons and Fractals, 2005, 23, 1661-1670.	2.5	36
64	Dry Friction Model of Percussive Drilling. Meccanica, 1999, 34, 425-434.	1.2	35
65	Global and local dynamics of drifting oscillator for different contact force models. International Journal of Non-Linear Mechanics, 2010, 45, 850-858.	1.4	35
66	A novel model of dipteran flight mechanism. International Journal of Dynamics and Control, 2013, 1, 1-11.	1.5	35
67	Measurement of chaotic vibration in a symmetrically piecewise linear oscillator. Chaos, Solitons and Fractals, 1998, 9, 209-220.	2.5	34
68	Topology of vibro-impact systems in the neighborhood of grazing. Physica D: Nonlinear Phenomena, 2012, 241, 1919-1931.	1.3	34
69	EXCITEMENT AND SYNCHRONIZATION OF SMALL-WORLD NEURONAL NETWORKS WITH SHORT-TERM SYNAPTIC PLASTICITY. International Journal of Neural Systems, 2011, 21, 415-425.	3.2	33
70	Application of the harmonic balance method to ground moling machines operating in periodic regimes. Chaos, Solitons and Fractals, 2000, 11, 2515-2525.	2.5	31
71	Novel dynamic fatigue-testing device: design and measurements. Measurement Science and Technology, 2006, 17, 2218-2226.	1.4	31
72	Non-linear modal analysis for beams subjected to axial loads: Analytical and finite-element solutions. International Journal of Non-Linear Mechanics, 2008, 43, 551-561.	1.4	31

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73	Rotary motion of the parametric and planar pendulum under stochastic wave excitation. International Journal of Non-Linear Mechanics, 2015, 71, 30-38.	1.4	31
74	Modelling of regenerative and frictional cutting dynamics. International Journal of Mechanical Sciences, 2019, 156, 86-93.	3.6	31
75	Nonlinear dynamics of lump mass model of drill-string in horizontal well. International Journal of Mechanical Sciences, 2020, 174, 105450.	3.6	31
76	Chaos caused by non-reversible dry friction. Chaos, Solitons and Fractals, 2003, 16, 661-664.	2.5	30
77	Optimum energy extraction from rotational motion in a parametrically excited pendulum. Mechanics Research Communications, 2012, 43, 7-14.	1.0	30
78	Dynamics of rotary drilling with non-uniformly distributed blades. International Journal of Mechanical Sciences, 2019, 160, 270-281.	3.6	30
79	Suppressing grazing chaos in impacting system by structural nonlinearity. Chaos, Solitons and Fractals, 2008, 38, 864-869.	2.5	29
80	Intermittent control of coexisting attractors. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120428.	1.6	28
81	Synchronous rotational motion of parametric pendulums. International Journal of Non-Linear Mechanics, 2015, 70, 84-94.	1.4	27
82	Dynamic method of stiffness identification in impacting systems for percussive drilling applications. Mechanical Systems and Signal Processing, 2016, 80, 224-244.	4.4	27
83	Vibration reduction of the impact system by an SMA restraint: numerical studies. International Journal of Non-Linear Mechanics, 2010, 45, 837-849.	1.4	26
84	APPROXIMATE ROTATIONAL SOLUTIONS OF PENDULUM UNDER COMBINED VERTICAL AND HORIZONTAL EXCITATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250100.	0.7	26
85	Chaotic thresholds for the piecewise linear discontinuous system with multiple well potentials. International Journal of Non-Linear Mechanics, 2015, 70, 145-152.	1.4	26
86	Geometrical insight into non-smooth bifurcations of a soft impact oscillator. IMA Journal of Applied Mathematics, 2016, 81, 662-678.	0.8	25
87	Influence of Tool Flank Forces on Complex Dynamics of Cutting Process. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450115.	0.7	24
88	Regenerative and frictional chatter in plunge grinding. Nonlinear Dynamics, 2016, 86, 283-307.	2.7	24
89	Global dynamics of a harmonically excited oscillator with a play: Numerical studies. International Journal of Non-Linear Mechanics, 2017, 94, 98-108.	1.4	24
90	Versatile mass excited impact oscillator. Nonlinear Dynamics, 2020, 99, 323-339.	2.7	24

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91	Chaotic burst synchronization in heterogeneous small-world neuronal network with noise. International Journal of Non-Linear Mechanics, 2009, 44, 298-303.	1.4	23
92	Drifting Impact Oscillator With a New Model of the Progression Phase. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	1.1	23
93	Non-linear analysis and quench control of chatter in plunge grinding. International Journal of Non-Linear Mechanics, 2015, 70, 134-144.	1.4	23
94	State Dependent Delayed Drill-string Vibration: Theory, Experiments and New Model. Procedia IUTAM, 2017, 22, 39-50.	1.2	23
95	Chaos in impact oscillators not in vain: Dynamics of new mass excited oscillator. Nonlinear Dynamics, 2020, 102, 835-861.	2.7	23
96	Bifurcation analysis of vortex-induced vibration of low-dimensional models of marine risers. Nonlinear Dynamics, 2021, 106, 147-167.	2.7	23
97	Is wave energy untapped potential?. International Journal of Mechanical Sciences, 2021, 205, 106544.	3.6	22
98	Optimization of the Vibro-Impact Capsule System. Strojniski Vestnik/Journal of Mechanical Engineering, 2016, 62, 430-439.	0.6	22
99	Chaos caused by fatigue crack growth. Chaos, Solitons and Fractals, 2003, 16, 651-659.	2.5	21
100	Computation of periodic orbits for piecewise linear oscillator by Harmonic Balance Methods. Communications in Nonlinear Science and Numerical Simulation, 2022, 108, 106220.	1.7	21
101	Phase locking and rotational motion of a parametric pendulum in noisy and chaotic conditions. Dynamical Systems, 2008, 23, 259-265.	0.2	20
102	Basins of attraction of the bistable region of time-delayed cutting dynamics. Physical Review E, 2017, 96, 032205.	0.8	20
103	Application of Resonance Enhanced Drilling to coring. Journal of Petroleum Science and Engineering, 2020, 188, 106866.	2.1	20
104	Modelling of vibro-impact system driven by beat frequency. International Journal of Mechanical Sciences, 2003, 45, 623-641.	3.6	19
105	EXPERIMENTAL BIFURCATIONS OF AN IMPACT OSCILLATOR WITH SMA CONSTRAINT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230017.	0.7	19
106	Regenerative chatter in a plunge grinding process with workpiece imbalance. International Journal of Advanced Manufacturing Technology, 2017, 89, 2845-2862.	1.5	19
107	Stability and dynamics of parallel plunge grinding. International Journal of Advanced Manufacturing Technology, 2018, 99, 881-895.	1.5	19
108	VIV of flexible structures in 2D uniform flow. International Journal of Engineering Science, 2020, 150, 103211.	2.7	19

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109	Experimental verification of the percussive drilling model. Mechanical Systems and Signal Processing, 2021, 146, 107067.	4.4	19
110	Penetration rate prediction for percussive drilling via dry friction model. Chaos, Solitons and Fractals, 2000, 11, 2479-2485.	2.5	18
111	Analysis of the periodic solutions of a smooth and discontinuous oscillator. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 575-582.	1.5	18
112	Experimental control for initiating and maintaining rotation of parametric pendulum. European Physical Journal: Special Topics, 2014, 223, 795-812.	1.2	18
113	Regenerative chatter in self-interrupted plunge grinding. Meccanica, 2016, 51, 3185-3202.	1.2	17
114	Nonlinear dynamics of new magneto-mechanical oscillator. Communications in Nonlinear Science and Numerical Simulation, 2022, 105, 106092.	1.7	17
115	Chatter in a transverse grinding process. Journal of Sound and Vibration, 2014, 333, 937-953.	2.1	16
116	RED: Revolutionary Drilling Technology for Hard Rock Formations. , 2017, , .		16
117	Dynamics and frequency and voltage control of downhole oil pumping system. Mechanical Systems and Signal Processing, 2020, 139, 106562.	4.4	16
118	Applied nonlinear dynamics of non-smooth mechanical systems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2006, 28, 519-526.	0.8	15
119	A three-degree-of-freedom model for vortex-induced vibrations of turbine blades. Meccanica, 2016, 51, 2607-2628.	1.2	15
120	Shear stress triggering brittle shear fracturing of rock-like materials. International Journal of Mechanical Sciences, 2018, 146-147, 295-302.	3.6	15
121	Nonlinear vibration caused by fatigue. Journal of Sound and Vibration, 2007, 303, 58-77.	2.1	14
122	Suppressing nonlinear resonances in an impact oscillator using SMAs. Smart Materials and Structures, 2012, 21, 075028.	1.8	14
123	Orthogonal Cutting Process Modelling Considering Tool-workpiece Frictional Effect. Procedia CIRP, 2015, 31, 429-434.	1.0	14
124	Experimental bifurcation control of a parametric pendulum. JVC/Journal of Vibration and Control, 2017, 23, 2256-2268.	1.5	14
125	Parametric analysis of a sliding-mode controller to suppress drill-string stick-slip vibration. Meccanica, 2020, 55, 2475-2492.	1.2	14
126	Nonlinear Young's Modulus of New Red Sandstone: Experimental Studies. Acta Mechanica Solida Sinica, 2021, 34, 989-999.	1.0	14

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127	Parameter identification of the fatigue-testing rig. International Journal of Mechanical Sciences, 2008, 50, 1142-1152.	3.6	13
128	Bifurcations and the penetrating rate analysis of a model for percussive drilling. Acta Mechanica Sinica/Lixue Xuebao, 2010, 26, 467-475.	1.5	13
129	Numerical Study of Forward and Backward Whirling of Drill-String. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	13
130	Statistical basin of attraction in time-delayed cutting dynamics: Modelling and computation. Physica D: Nonlinear Phenomena, 2021, 416, 132779.	1.3	13
131	Estimation and improvement of cutting safety. Nonlinear Dynamics, 2019, 98, 2975-2988.	2.7	12
132	Analysis and control of the dynamical response of a higher order drifting oscillator. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170500.	1.0	11
133	Calibrated FEM modelling of rock cutting with PDC cutter. MATEC Web of Conferences, 2018, 148, 16006.	0.1	11
134	An unconditionally stable time integration method with controllable dissipation for second-order nonlinear dynamics. Nonlinear Dynamics, 2021, 105, 3341-3358.	2.7	11
135	Estimation of Lyapunov exponents for a system with sensitive friction model. Archive of Applied Mechanics, 2009, 79, 667-677.	1.2	10
136	Effects of time-periodic intercoupling strength on burst synchronization of a clustered neuronal network. International Journal of Non-Linear Mechanics, 2015, 70, 119-125.	1.4	10
137	Stability of periodic modes and bifurcation behaviors in a bouncing-dimer system. Nonlinear Dynamics, 2016, 86, 1477-1492.	2.7	10
138	Modelling of low-frequency acoustic wave propagation in dilute gas-bubbly liquids. International Journal of Mechanical Sciences, 2022, 216, 106979.	3.6	10
139	Nonlinear behavior of acoustic rays in underwater sound channels. Chaos, Solitons and Fractals, 1998, 9, 193-207.	2.5	9
140	Energy saving by reducing motor rating of sucker-rod pump systems. Energy, 2021, 228, 120618.	4.5	9
141	Firing synchronization of learning neuronal networks with small-world connectivity. International Journal of Non-Linear Mechanics, 2012, 47, 1161-1166.	1.4	8
142	Influence of Workpiece Imbalance on Regenerative and Frictional Grinding Chatters. Procedia IUTAM, 2017, 22, 146-153.	1.2	8
143	Analysis of Hopf bifurcations in differential equations with state€dependent delays via multiple scales method. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 789-801.	0.9	8
144	Effects of Heave Excitation on Rotations of a Pendulum for Wave Energy Extraction. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2008, , 117-128.	0.1	8

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145	Engineering Applications of Non-smooth Dynamics. Solid Mechanics and Its Applications, 2012, , 211-273.	0.1	7
146	Attractor reconstruction of an impact oscillator for parameter identification. International Journal of Mechanical Sciences, 2015, 103, 212-223.	3.6	7
147	Safety estimation for a new model of regenerative and frictional cutting dynamics. International Journal of Mechanical Sciences, 2021, 201, 106468.	3.6	7
148	An Experimental Rig to Investigate Fatigue Crack Growth Under Dynamic Loading. Meccanica, 2003, 38, 19-31.	1.2	6
149	Phase Shift Adjustment for Harmonic Balance Method Applied to Vibro-impact Systems. Meccanica, 2006, 41, 269-282.	1.2	6
150	Physical interpretation and theory of existence of cluster structures in lattices of dynamical systems. Chaos, Solitons and Fractals, 2007, 34, 1082-1104.	2.5	6
151	Non-linear dynamics of engineering systems. International Journal of Non-Linear Mechanics, 2008, 43, 459-461.	1.4	6
152	Dislocation model of localized plastic deformation initiated with a flat punch. International Journal of Solids and Structures, 2010, 47, 1082-1089.	1.3	6
153	Experimental Investigation of the Vibro-impact Capsule System. Procedia IUTAM, 2017, 22, 237-243.	1.2	6
154	Bifurcation scenarios in helical buckling of slender rods using new FE. International Journal of Engineering Science, 2020, 147, 103197.	2.7	6
155	Feedback control method to suppress stick-slip in drill-strings featuring delay and actuation constraints. European Physical Journal: Special Topics, 2021, 230, 3627-3642.	1.2	6
156	Suppressing stick–slip oscillations in drill-strings by Modified Integral Resonant Control. International Journal of Mechanical Sciences, 2022, 228, 107425.	3.6	6
157	Improving routing performance of underwater wireless sensor networks. , 2017, , .		5
158	Global Hopf bifurcation analysis of a six-dimensional FitzHugh-Nagumo neural network with delay by a synchronized scheme. Discrete and Continuous Dynamical Systems - Series B, 2011, 16, 457-474.	0.5	5
159	Nonlinear Dynamics of Vibro-Impact Systems: Theory and Experiments. Materials Science Forum, 2003, 440-441, 513-520.	0.3	4
160	Asymptotic theory of chaotic synchronization for dissipative-coupled dynamical systems. Chaos, Solitons and Fractals, 2009, 41, 752-763.	2.5	4
161	Path-Following Bifurcation Analysis of Church Bell Dynamics. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	4
162	Mechanical Vibrations: Theory and Application to Structural Dynamics – 3rd Edition M. Geradin and D. J. Rixen John Wiley and Sons, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, UK. 2015. 598pp. Illustrated. £83.95. ISBN 978-1-118-90020 8.. Aeronautical Journal, 2018, 122, 857-857.	1.1	4

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163	A Reduced Order Model for Vortex–Induced Vibration of a Vertical Offshore Riser in Lock–in. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2008, , 155-166.	0.1	4
164	RESONANCES OF THE SD OSCILLATOR DUE TO THE DISCONTINUOUS PHASE. Journal of Applied Analysis and Computation, 2011, 1, 183-191.	0.2	4
165	Mathematical Models of Mechanical Systems with Discontinuities. World Scientific Series on Nonlinear Science, Series A, 2000, , 17-38.	0.0	3
166	RAY CHAOS IN UNDERWATER ACOUSTICS AND ITS APPLICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1579-1587.	0.7	3
167	C-oscillators and stability of stationary cluster structures in lattices of diffusively coupled oscillators. Chaos, Solitons and Fractals, 2009, 42, 686-701.	2.5	3
168	ACOUSTIC RAY STABILITY FOR LONG-RANGE SOUND SPEED PROFILE TRANSITION SCENARIOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 177-194.	0.7	3
169	Suppression of Drill-String Stick-Slip Vibration. MATEC Web of Conferences, 2018, 148, 16008.	0.1	3
170	Complex dynamics of drill-strings: Theory and experiments. MATEC Web of Conferences, 2018, 211, 01002.	0.1	3
171	Dynamics, Synchronization and Control of Parametric Pendulums. , 2013, , 185-193.		3
172	Internal mechanics of anti stick–slip tool. International Journal of Mechanical Sciences, 2022, 221, 107188.	3.6	3
173	RAY STABILITY FOR BACKGROUND SOUND SPEED PROFILES WITH TRANSITION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2953-2964.	0.7	2
174	Vortex-Induced Vibration of Catenary Riser: Reduced-Order Modeling and Lock-In Analysis Using Wake Oscillator. , 2009, , .		2
175	A new method for characterizing patterns of neural spike trains and its application. International Journal of Non-Linear Mechanics, 2009, 44, 432-440.	1.4	2
176	Rock Fracture During Oil Well Perforation. Lecture Notes in Mechanical Engineering, 2020, , 185-192.	0.3	2
177	Dynamics of Ultrasonic Drilling of Hard Materials. World Scientific Series on Nonlinear Science, Series A, 2000, , 403-444.	0.0	2
178	Comparison of Dynamical Responses of an Offshore Riser with Linear and Nonlinear Structural Characteristics Through Nonlinear Normal Modes. , 2007, , .		1
179	Introduction. Experimental nonlinear dynamics of solids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 675-678.	1.6	1
180	Introduction. Experimental nonlinear dynamics of fluids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1227-1229.	1.6	1

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181	Contact Force Models and Dynamics of a Drifting Oscillator. , 2009, , .		1
182	Special issue on â€œDynamics, control and design of non-linear systems with smart structures". International Journal of Non-Linear Mechanics, 2010, 45, 835-836.	1.4	1
183	Helical buckling of thin rods: FE modelling. MATEC Web of Conferences, 2018, 211, 02010.	0.1	1
184	Parametric Study for Lock-In Detection in Vortex-Induced Vibration of Flexible Risers. , 2013, , 147-158.		1
185	Through the Looking-Glass of the Grazing Bifurcation: Part I - Theoretical Framework. Discontinuity, Nonlinearity, and Complexity, 2013, 2, 203-223.	0.1	1
186	Complex Nonlinear Response of a Piecewise Linear Oscillator: Experiment and Simulation. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2011, , 135-143.	0.1	1
187	Dynamically Reconfigurable Routing Protocol Design for Underwater Wireless Sensor Network. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-5.	0.4	1
188	Control Method to Suppress Stick-slip in Drill-strings Featuring Actuation Delay and Constraints. IFAC-PapersOnLine, 2021, 54, 115-120.	0.5	1
189	Nonlinear Dynamics of Orthogonal Metal Cutting. World Scientific Series on Nonlinear Science, Series A, 2000, , 361-401.	0.0	0
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