

Marian Wiercigroch

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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.

195
papers

4,565
citations

38
h-index

57
g-index

210
ext. papers

5,305
ext. citations

3.8
avg, IF

6.02
L-index

#	Paper	IF	Citations
195	Sources of nonlinearities, chatter generation and suppression in metal cutting. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2001 , 359, 663-693	3	174
194	Archetypal oscillator for smooth and discontinuous dynamics. <i>Physical Review E</i> , 2006 , 74, 046218	2.4	140
193	Hysteretic effects of dry friction: modelling and experimental studies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 747-65	3	136
192	Piecewise linear approach to an archetypal oscillator for smooth and discontinuous dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 635-52	3	98
191	Experimental study of impact oscillator with one-sided elastic constraint. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 679-704	3	96
190	Rotating orbits of a parametrically-excited pendulum. <i>Chaos, Solitons and Fractals</i> , 2005 , 23, 1537-1548	9.3	91
189	Bifurcation analysis of an impact oscillator with a one-sided elastic constraint near grazing. <i>Physica D: Nonlinear Phenomena</i> , 2010 , 239, 312-321	3.3	88
188	Stability analysis of a state dependent delayed, coupled two DOF model of drill-string vibration. <i>Journal of Sound and Vibration</i> , 2013 , 332, 2575-2592	3.9	86
187	Frictional chatter in orthogonal metal cutting. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2001 , 359, 713-738	3	85
186	Unveiling complexity of drill-string vibrations: Experiments and modelling. <i>International Journal of Mechanical Sciences</i> , 2015 , 101-102, 324-337	5.5	81
185	Modeling of an impact system with a drift. <i>Physical Review E</i> , 2001 , 64, 056224	2.4	79
184	Dynamics of ultrasonic percussive drilling of hard rocks. <i>Journal of Sound and Vibration</i> , 2005 , 280, 739-757	3.7	77
183	Modelling of a vibro-impact capsule system. <i>International Journal of Mechanical Sciences</i> , 2013 , 66, 2-11	5.5	75
182	Approximate analytical solutions for oscillatory and rotational motion of a parametric pendulum. <i>Nonlinear Dynamics</i> , 2006 , 47, 311-320	5	75
181	Modelling of high frequency vibro-impact drilling. <i>International Journal of Mechanical Sciences</i> , 2015 , 91, 110-119	5.5	72
180	Rotating solutions and stability of parametric pendulum by perturbation method. <i>Journal of Sound and Vibration</i> , 2008 , 310, 243-259	3.9	72
179	The limit case response of the archetypal oscillator for smooth and discontinuous dynamics. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 462-473	2.8	70

178	Identification of chaos in a cutting process by the 00 test. <i>Chaos, Solitons and Fractals</i> , 2009 , 40, 2095-2103	5.5	65
177	Vibro-impact responses of capsule system with various friction models. <i>International Journal of Mechanical Sciences</i> , 2013 , 72, 39-54	5.5	62
176	Piecewise approximate analytical solutions for a Jeffcott rotor with a snubber ring. <i>International Journal of Mechanical Sciences</i> , 2002 , 44, 475-488	5.5	60
175	Grazing-induced bifurcations in impact oscillators with elastic and rigid constraints. <i>International Journal of Mechanical Sciences</i> , 2017 , 127, 204-214	5.5	59
174	Nonlinear dynamics of the quasi-zero-stiffness SD oscillator based upon the local and global bifurcation analyses. <i>Nonlinear Dynamics</i> , 2017 , 87, 987-1014	5	59
173	Regular and chaotic dynamics of a discontinuously nonlinear rotor system. <i>Chaos, Solitons and Fractals</i> , 2002 , 13, 1231-1242	9.3	57
172	Forward and backward motion control of a vibro-impact capsule system. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 70, 30-46	2.8	56
171	Bifurcation analysis of periodic orbits of a non-smooth Jeffcott rotor model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 2571-2580	3.7	55
170	Reduced-order modelling of vortex-induced vibration of catenary riser. <i>Ocean Engineering</i> , 2009 , 36, 1404-1414	3.9	53
169	Experimental verification of the vibro-impact capsule model. <i>Nonlinear Dynamics</i> , 2016 , 83, 1029-1041	5	51
168	COMPLEX DYNAMICS OF BILINEAR OSCILLATOR CLOSE TO GRAZING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010 , 20, 3801-3817	2	49
167	The nature of the normal form map for soft impacting systems. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 504-513	2.8	49
166	2DOF CFD calibrated wake oscillator model to investigate vortex-induced vibrations. <i>International Journal of Mechanical Sciences</i> , 2017 , 127, 176-190	5.5	47
165	Dynamics of a vertical riser with weak structural nonlinearity excited by wakes. <i>Journal of Sound and Vibration</i> , 2008 , 315, 685-699	3.9	46
164	Modelling of Ground Molding Dynamics by an Impact Oscillator with a Frictional Slider. <i>Meccanica</i> , 2003 , 38, 85-97	2.1	46
163	Invisible grazings and dangerous bifurcations in impacting systems: the problem of narrow-band chaos. <i>Physical Review E</i> , 2009 , 79, 037201	2.4	45
162	Modelling of frictional chatter in metal cutting. <i>International Journal of Mechanical Sciences</i> , 2014 , 89, 167-176	5.5	44
161	Experimental verification of Jeffcott rotor model with preloaded snubber ring. <i>Journal of Sound and Vibration</i> , 2006 , 298, 907-917	3.9	43

160	Analytical drift reconstruction for visco-elastic impact oscillators operating in periodic and chaotic regimes. <i>Chaos, Solitons and Fractals</i> , 2004 , 19, 151-161	9.3	42
159	Low-dimensional maps for piecewise smooth oscillators. <i>Journal of Sound and Vibration</i> , 2007 , 305, 750-771	5.7	41
158	Dynamics of a nearly symmetrical piecewise linear oscillator close to grazing incidence: Modelling and experimental verification. <i>Nonlinear Dynamics</i> , 2006 , 46, 225-238	5	40
157	Bifurcation analysis of a piecewise-linear impact oscillator with drift. <i>Nonlinear Dynamics</i> , 2014 , 77, 213-227	3.7	38
156	Dynamics of the nearly parametric pendulum. <i>International Journal of Non-Linear Mechanics</i> , 2011 , 46, 436-442	2.8	37
155	Two-sided damping constraint control strategy for high-performance vibration isolation and end-stop impact protection. <i>Nonlinear Dynamics</i> , 2016 , 86, 2129-2144	5	37
154	A modified LuGre friction model for an accurate prediction of friction force in the pure sliding regime. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 80, 122-131	2.8	35
153	Transient tumbling chaos and damping identification for parametric pendulum. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 767-84	3	34
152	Two-dimensional map for impact oscillator with drift. <i>Physical Review E</i> , 2004 , 70, 036201	2.4	34
151	Bifurcation analysis of a preloaded Jeffcott rotor. <i>Chaos, Solitons and Fractals</i> , 2003 , 15, 407-416	9.3	34
150	Singularities in soft-impacting systems. <i>Physica D: Nonlinear Phenomena</i> , 2012 , 241, 553-565	3.3	33
149	Bifurcation techniques for stiffness identification of an impact oscillator. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 41, 19-31	3.7	31
148	Topology of vibro-impact systems in the neighborhood of grazing. <i>Physica D: Nonlinear Phenomena</i> , 2012 , 241, 1919-1931	3.3	31
147	Experimental studies of forward and backward whirls of drill-string. <i>Mechanical Systems and Signal Processing</i> , 2018 , 100, 454-465	7.8	31
146	Modelling and experimental verification of an asymmetric Jeffcott rotor with radial clearance. <i>Journal of Sound and Vibration</i> , 2015 , 334, 86-97	3.9	30
145	Global and local dynamics of drifting oscillator for different contact force models. <i>International Journal of Non-Linear Mechanics</i> , 2010 , 45, 850-858	2.8	30
144	Cumulative effect of structural nonlinearities: chaotic dynamics of cantilever beam system with impacts. <i>Chaos, Solitons and Fractals</i> , 2005 , 23, 1661-1670	9.3	29
143	Investigation of two different friction models from the perspective of friction-induced vibrations. <i>Tribology International</i> , 2015 , 90, 185-197	4.9	28

142	Path-following analysis of the dynamical response of a piecewise-linear capsule system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 37, 102-114	3.7	28
141	Dynamics of vibro-impact drilling with linear and nonlinear rock models. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 200-210	5.5	28
140	Experimental studies of the resultant contact forces in drillbit-rock interaction. <i>International Journal of Mechanical Sciences</i> , 2015 , 91, 3-11	5.5	28
139	Excitement and synchronization of small-world neuronal networks with short-term synaptic plasticity. <i>International Journal of Neural Systems</i> , 2011 , 21, 415-25	6.2	28
138	Dry Friction Model of Percussive Drilling. <i>Meccanica</i> , 1999 , 34, 425-434	2.1	28
137	Calibration and comparison of VIV wake oscillator models for low mass ratio structures. <i>International Journal of Mechanical Sciences</i> , 2018 , 142-143, 547-560	5.5	27
136	BIFURCATION CONTROL OF A PARAMETRIC PENDULUM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250111	2	27
135	Measurement of chaotic vibration in a symmetrically piecewise linear oscillator. <i>Chaos, Solitons and Fractals</i> , 1998 , 9, 209-220	9.3	27
134	Application of the harmonic balance method to ground moling machines operating in periodic regimes. <i>Chaos, Solitons and Fractals</i> , 2000 , 11, 2515-2525	9.3	27
133	Multi-modes approach to modelling of vortex-induced vibration. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 80, 40-51	2.8	25
132	Galerkin projections for state-dependent delay differential equations with applications to drilling. <i>Applied Mathematical Modelling</i> , 2013 , 37, 1705-1722	4.5	25
131	Drill-string vibration analysis using non-smooth dynamics approach. <i>Nonlinear Dynamics</i> , 2012 , 70, 1017-1035	3.0	25
130	Dynamic method of stiffness identification in impacting systems for percussive drilling applications. <i>Mechanical Systems and Signal Processing</i> , 2016 , 80, 224-244	7.8	24
129	Synchronous rotational motion of parametric pendulums. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 70, 84-94	2.8	24
128	Intermittent control of coexisting attractors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120428	3	24
127	Vibration reduction of the impact system by an SMA restraint: numerical studies. <i>International Journal of Non-Linear Mechanics</i> , 2010 , 45, 837-849	2.8	24
126	Suppressing grazing chaos in impacting system by structural nonlinearity. <i>Chaos, Solitons and Fractals</i> , 2008 , 38, 864-869	9.3	24
125	Novel dynamic fatigue-testing device: design and measurements. <i>Measurement Science and Technology</i> , 2006 , 17, 2218-2226	2	24

124	Chaos caused by non-reversible dry friction. <i>Chaos, Solitons and Fractals</i> , 2003 , 16, 661-664	9.3	24
123	Suppression of drill-string stick-slip vibration by sliding mode control: Numerical and experimental studies. <i>European Journal of Applied Mathematics</i> , 2018 , 29, 805-825	1	24
122	Optimum energy extraction from rotational motion in a parametrically excited pendulum. <i>Mechanics Research Communications</i> , 2012 , 43, 7-14	2.2	23
121	Rotary motion of the parametric and planar pendulum under stochastic wave excitation. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 71, 30-38	2.8	23
120	Non-linear modal analysis for beams subjected to axial loads: Analytical and finite-element solutions. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 551-561	2.8	23
119	Non-linear analysis and quench control of chatter in plunge grinding. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 70, 134-144	2.8	21
118	A novel smooth and discontinuous oscillator with strong irrational nonlinearities. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012 , 55, 1832-1843	3.6	21
117	APPROXIMATE ROTATIONAL SOLUTIONS OF PENDULUM UNDER COMBINED VERTICAL AND HORIZONTAL EXCITATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250100	2	21
116	Chaotic burst synchronization in heterogeneous small-world neuronal network with noise. <i>International Journal of Non-Linear Mechanics</i> , 2009 , 44, 298-303	2.8	18
115	Drifting Impact Oscillator With a New Model of the Progression Phase. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012 , 79,	2.7	18
114	Global dynamics of a harmonically excited oscillator with a play: Numerical studies. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 94, 98-108	2.8	17
113	Geometrical insight into non-smooth bifurcations of a soft impact oscillator. <i>IMA Journal of Applied Mathematics</i> , 2016 , 81, 662-678	1	17
112	State Dependent Delayed Drill-string Vibration: Theory, Experiments and New Model. <i>Procedia IUTAM</i> , 2017 , 22, 39-50		17
111	Influence of Tool Flank Forces on Complex Dynamics of Cutting Process. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014 , 24, 1450115	2	17
110	EXPERIMENTAL BIFURCATIONS OF AN IMPACT OSCILLATOR WITH SMA CONSTRAINT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1230017	2	17
109	Modelling of vibro-impact system driven by beat frequency. <i>International Journal of Mechanical Sciences</i> , 2003 , 45, 623-641	5.5	17
108	Dynamics of rotary drilling with non-uniformly distributed blades. <i>International Journal of Mechanical Sciences</i> , 2019 , 160, 270-281	5.5	16
107	Modelling of regenerative and frictional cutting dynamics. <i>International Journal of Mechanical Sciences</i> , 2019 , 156, 86-93	5.5	16

106	Chaos caused by fatigue crack growth. <i>Chaos, Solitons and Fractals</i> , 2003 , 16, 651-659	9.3	16
105	Phase locking and rotational motion of a parametric pendulum in noisy and chaotic conditions. <i>Dynamical Systems</i> , 2008 , 23, 259-265	0.6	15
104	Optimization of the Vibro-Impact Capsule System. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2016 , 62, 430-439	1.3	15
103	Basins of attraction of the bistable region of time-delayed cutting dynamics. <i>Physical Review E</i> , 2017 , 96, 032205	2.4	14
102	Chaos in impact oscillators not in vain: Dynamics of new mass excited oscillator. <i>Nonlinear Dynamics</i> , 2020 , 102, 835-861	5	14
101	A novel model of dipteran flight mechanism. <i>International Journal of Dynamics and Control</i> , 2013 , 1, 1-11	1.7	14
100	Chaotic thresholds for the piecewise linear discontinuous system with multiple well potentials. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 70, 145-152	2.8	14
99	Regenerative and frictional chatter in plunge grinding. <i>Nonlinear Dynamics</i> , 2016 , 86, 283-307	5	13
98	A three-degree-of-freedom model for vortex-induced vibrations of turbine blades. <i>Meccanica</i> , 2016 , 51, 2607-2628	2.1	13
97	Chatter in a transverse grinding process. <i>Journal of Sound and Vibration</i> , 2014 , 333, 937-953	3.9	13
96	Analysis of the periodic solutions of a smooth and discontinuous oscillator. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013 , 29, 575-582	2	13
95	Orthogonal Cutting Process Modelling Considering Tool-workpiece Frictional Effect. <i>Procedia CIRP</i> , 2015 , 31, 429-434	1.8	13
94	Suppressing nonlinear resonances in an impact oscillator using SMAs. <i>Smart Materials and Structures</i> , 2012 , 21, 075028	3.4	13
93	Penetration rate prediction for percussive drilling via dry friction model. <i>Chaos, Solitons and Fractals</i> , 2000 , 11, 2479-2485	9.3	13
92	Versatile mass excited impact oscillator. <i>Nonlinear Dynamics</i> , 2020 , 99, 323-339	5	13
91	Regenerative chatter in self-interrupted plunge grinding. <i>Meccanica</i> , 2016 , 51, 3185-3202	2.1	12
90	Bifurcations and the penetrating rate analysis of a model for percussive drilling. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010 , 26, 467-475	2	12
89	Stability and dynamics of parallel plunge grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 881-895	3.2	11

88	Experimental control for initiating and maintaining rotation of parametric pendulum. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 795-812	2.3	11
87	Applied nonlinear dynamics of non-smooth mechanical systems. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2006 , 28, 519-526	2	11
86	Experimental verification of the percussive drilling model. <i>Mechanical Systems and Signal Processing</i> , 2021 , 146, 107067	7.8	11
85	Experimental bifurcation control of a parametric pendulum. <i>JVC/Journal of Vibration and Control</i> , 2017 , 23, 2256-2268	2	10
84	RED: Revolutionary Drilling Technology for Hard Rock Formations 2017 ,		10
83	Nonlinear dynamics of lump mass model of drill-string in horizontal well. <i>International Journal of Mechanical Sciences</i> , 2020 , 174, 105450	5.5	10
82	Shear stress triggering brittle shear fracturing of rock-like materials. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 295-302	5.5	10
81	Numerical Study of Forward and Backward Whirling of Drill-String. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	10
80	Regenerative chatter in a plunge grinding process with workpiece imbalance. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 89, 2845-2862	3.2	10
79	Nonlinear vibration caused by fatigue. <i>Journal of Sound and Vibration</i> , 2007 , 303, 58-77	3.9	10
78	VIV of flexible structures in 2D uniform flow. <i>International Journal of Engineering Science</i> , 2020 , 150, 103211	5.7	9
77	Dynamics and frequency and voltage control of downhole oil pumping system. <i>Mechanical Systems and Signal Processing</i> , 2020 , 139, 106562	7.8	9
76	Estimation of Lyapunov exponents for a system with sensitive friction model. <i>Archive of Applied Mechanics</i> , 2009 , 79, 667-677	2.2	9
75	Parameter identification of the fatigue-testing rig. <i>International Journal of Mechanical Sciences</i> , 2008 , 50, 1142-1152	5.5	9
74	Application of Resonance Enhanced Drilling to coring. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 188, 106866	4.4	9
73	Calibrated FEM modelling of rock cutting with PDC cutter. <i>MATEC Web of Conferences</i> , 2018 , 148, 160060.3		9
72	Analysis and control of the dynamical response of a higher order drifting oscillator. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20170500	2.4	8
71	Effects of time-periodic intercoupling strength on burst synchronization of a clustered neuronal network. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 70, 119-125	2.8	8

70	Nonlinear behavior of acoustic rays in underwater sound channels. <i>Chaos, Solitons and Fractals</i> , 1998 , 9, 193-207	9.3	7
69	Vibration energy flow transmission in systems with Coulomb friction. <i>International Journal of Mechanical Sciences</i> , 2022 , 214, 106932	5.5	7
68	Bifurcation analysis of vortex-induced vibration of low-dimensional models of marine risers. <i>Nonlinear Dynamics</i> , 2021 , 106, 147-167	5	7
67	Estimation and improvement of cutting safety. <i>Nonlinear Dynamics</i> , 2019 , 98, 2975-2988	5	6
66	Attractor reconstruction of an impact oscillator for parameter identification. <i>International Journal of Mechanical Sciences</i> , 2015 , 103, 212-223	5.5	6
65	Influence of Workpiece Imbalance on Regenerative and Frictional Grinding Chatters. <i>Procedia IUTAM</i> , 2017 , 22, 146-153		6
64	Engineering Applications of Non-smooth Dynamics. <i>Solid Mechanics and Its Applications</i> , 2012 , 211-273	0.4	6
63	Physical interpretation and theory of existence of cluster structures in lattices of dynamical systems. <i>Chaos, Solitons and Fractals</i> , 2007 , 34, 1082-1104	9.3	6
62	Statistical basin of attraction in time-delayed cutting dynamics: Modelling and computation. <i>Physica D: Nonlinear Phenomena</i> , 2021 , 416, 132779	3.3	6
61	Effects of Heave Excitation on Rotations of a Pendulum for Wave Energy Extraction. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2008 , 117-128	0.3	6
60	Parametric analysis of a sliding-mode controller to suppress drill-string stick-slip vibration. <i>Meccanica</i> , 2020 , 55, 2475-2492	2.1	5
59	Analysis of Hopf bifurcations in differential equations with state-dependent delays via multiple scales method. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018 , 98, 789-801	1	5
58	Firing synchronization of learning neuronal networks with small-world connectivity. <i>International Journal of Non-Linear Mechanics</i> , 2012 , 47, 1161-1166	2.8	5
57	Phase Shift Adjustment for Harmonic Balance Method Applied to Vibro-impact Systems. <i>Meccanica</i> , 2006 , 41, 269-282	2.1	5
56	Stability of periodic modes and bifurcation behaviors in a bouncing-dimer system. <i>Nonlinear Dynamics</i> , 2016 , 86, 1477-1492	5	5
55	Improving routing performance of underwater wireless sensor networks 2017 ,		4
54	Asymptotic theory of chaotic synchronization for dissipative-coupled dynamical systems. <i>Chaos, Solitons and Fractals</i> , 2009 , 41, 752-763	9.3	4
53	Dislocation model of localized plastic deformation initiated with a flat punch. <i>International Journal of Solids and Structures</i> , 2010 , 47, 1082-1089	3.1	4

52	Nonlinear dynamics of new magneto-mechanical oscillator. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 105, 106092	3.7	4
51	Material removal and surface generation in longitudinal-torsional ultrasonic assisted milling. <i>International Journal of Mechanical Sciences</i> , 2022 , 107375	5.5	4
50	Experimental Investigation of the Vibro-impact Capsule System. <i>Procedia IUTAM</i> , 2017 , 22, 237-243		3
49	C-oscillators and stability of stationary cluster structures in lattices of diffusively coupled oscillators. <i>Chaos, Solitons and Fractals</i> , 2009 , 42, 686-701	9.3	3
48	Non-linear dynamics of engineering systems. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 459-461	2.8	3
47	An Experimental Rig to Investigate Fatigue Crack Growth Under Dynamic Loading. <i>Meccanica</i> , 2003 , 38, 19-31	2.1	3
46	Nonlinear Dynamics of Vibro-Impact Systems: Theory and Experiments. <i>Materials Science Forum</i> , 2003 , 440-441, 513-520	0.4	3
45	Modelling of low-frequency acoustic wave propagation in dilute gas-bubbly liquids. <i>International Journal of Mechanical Sciences</i> , 2021 , 216, 106979	5.5	3
44	Bifurcation scenarios in helical buckling of slender rods using new FE. <i>International Journal of Engineering Science</i> , 2020 , 147, 103197	5.7	3
43	A Reduced Order Model for Vortex-Induced Vibration of a Vertical Offshore Riser in Lock. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2008 , 155-166	0.3	3
42	Nonlinear Young's Modulus of New Red Sandstone: Experimental Studies. <i>Acta Mechanica Sinica</i> , 2021 , 34, 989-999	2	3
41	Path-Following Bifurcation Analysis of Church Bell Dynamics. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	2
40	ACOUSTIC RAY STABILITY FOR LONG-RANGE SOUND SPEED PROFILE TRANSITION SCENARIOS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011 , 21, 177-194	2	2
39	RAY CHAOS IN UNDERWATER ACOUSTICS AND ITS APPLICATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008 , 18, 1579-1587	2	2
38	Computation of periodic orbits for piecewise linear oscillator by Harmonic Balance Methods. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022 , 108, 106220	3.7	2
37	Dynamics of Ultrasonic Drilling of Hard Materials. <i>World Scientific Series on Nonlinear Science, Series A</i> , 2000 , 403-444	3.3	2
36	Global Hopf bifurcation analysis of a six-dimensional FitzHugh-Nagumo neural network with delay by a synchronized scheme. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2011 , 16, 457-474	1.3	2
35	Rock Fracture During Oil Well Perforation. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 185-192	0.4	2

34	Dynamics, Synchronization and Control of Parametric Pendulums 2013 , 185-193		2
33	RESONANCES OF THE SD OSCILLATOR DUE TO THE DISCONTINUOUS PHASE. <i>Journal of Applied Analysis and Computation</i> , 2011 , 1, 183-191	0.4	2
32	Safety estimation for a new model of regenerative and frictional cutting dynamics. <i>International Journal of Mechanical Sciences</i> , 2021 , 201, 106468	5.5	2
31	An unconditionally stable time integration method with controllable dissipation for second-order nonlinear dynamics. <i>Nonlinear Dynamics</i> , 2021 , 105, 3341-3358	5	2
30	Is wave energy untapped potential?. <i>International Journal of Mechanical Sciences</i> , 2021 , 205, 106544	5.5	2
29	Suppression of Drill-String Stick-Slip Vibration. <i>MATEC Web of Conferences</i> , 2018 , 148, 16008	0.3	1
28	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.. <i>Aeronautical Journal</i> , 2018 , 122, 857-857	0.9	1
27	RAY STABILITY FOR BACKGROUND SOUND SPEED PROFILES WITH TRANSITION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009 , 19, 2953-2964	2	1
26	Vortex-Induced Vibration of Catenary Riser: Reduced-Order Modeling and Lock-In Analysis Using Wake Oscillator 2009 ,		1
25	A new method for characterizing patterns of neural spike trains and its application. <i>International Journal of Non-Linear Mechanics</i> , 2009 , 44, 432-440	2.8	1
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