

Marian Wiercigroch

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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 |
| 194 | Vibration energy flow transmission in systems with Coulomb friction. <i>International Journal of Mechanical Sciences</i> , 2022 , 214, 106932 | 5.5 | 7 |
| 193 | Response Analysis of a Rotating Tapered Beam. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 682-694 | 0.2 | |
| 192 | Internal mechanics of anti stick-slip tool. <i>International Journal of Mechanical Sciences</i> , 2022 , 221, 107188 | 5.5 | 0 |
| 191 | Material removal and surface generation in longitudinal-torsional ultrasonic assisted milling. <i>International Journal of Mechanical Sciences</i> , 2022 , 107375 | 5.5 | 4 |
| 190 | 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 |
| 189 | Control Method to Suppress Stick-slip in Drill-strings Featuring Actuation Delay and Constraints. <i>IFAC-PapersOnLine</i> , 2021 , 54, 115-120 | 0.7 | 0 |
| 188 | Nonlinear dynamics of new magneto-mechanical oscillator. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 105, 106092 | 3.7 | 4 |
| 187 | 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 |
| 186 | Experimental verification of the percussive drilling model. <i>Mechanical Systems and Signal Processing</i> , 2021 , 146, 107067 | 7.8 | 11 |
| 185 | Statistical basin of attraction in time-delayed cutting dynamics: Modelling and computation. <i>Physica D: Nonlinear Phenomena</i> , 2021 , 416, 132779 | 3.3 | 6 |
| 184 | An unconditionally stable time integration method with controllable dissipation for second-order nonlinear dynamics. <i>Nonlinear Dynamics</i> , 2021 , 105, 3341-3358 | 5 | 2 |
| 183 | Feedback control method to suppress stick-slip in drill-strings featuring delay and actuation constraints. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 3627 | 2.3 | 1 |
| 182 | Energy saving by reducing motor rating of sucker-rod pump systems. <i>Energy</i> , 2021 , 228, 120618 | 7.9 | 1 |
| 181 | Is wave energy untapped potential?. <i>International Journal of Mechanical Sciences</i> , 2021 , 205, 106544 | 5.5 | 2 |
| 180 | Bifurcation analysis of vortex-induced vibration of low-dimensional models of marine risers. <i>Nonlinear Dynamics</i> , 2021 , 106, 147-167 | 5 | 7 |
| 179 | Nonlinear Young's Modulus of New Red Sandstone: Experimental Studies. <i>Acta Mechanica Solida Sinica</i> , 2021 , 34, 989-999 | 2 | 3 |

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|-----|--|-----|----|
| 178 | Parametric analysis of a sliding-mode controller to suppress drill-string stick-slip vibration. <i>Meccanica</i> , 2020 , 55, 2475-2492 | 2.1 | 5 |
| 177 | Chaos in impact oscillators not in vain: Dynamics of new mass excited oscillator. <i>Nonlinear Dynamics</i> , 2020 , 102, 835-861 | 5 | 14 |
| 176 | VIV of flexible structures in 2D uniform flow. <i>International Journal of Engineering Science</i> , 2020 , 150, 103211 | 5.7 | 9 |
| 175 | Dynamics and frequency and voltage control of downhole oil pumping system. <i>Mechanical Systems and Signal Processing</i> , 2020 , 139, 106562 | 7.8 | 9 |
| 174 | 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 |
| 173 | Modelling VIV of Transversally Oscillating Rigid Structures Using Nonlinear Fluid Oscillators 2020 , 379-387 | | |
| 172 | Dynamically Reconfigurable Routing Protocol Design for Underwater Wireless Sensor Network. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2020 , 7, 1-5 | 0.4 | 0 |
| 171 | Rock Fracture During Oil Well Perforation. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 185-192 | 0.4 | 2 |
| 170 | Application of Resonance Enhanced Drilling to coring. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 188, 106866 | 4.4 | 9 |
| 169 | Versatile mass excited impact oscillator. <i>Nonlinear Dynamics</i> , 2020 , 99, 323-339 | 5 | 13 |
| 168 | Bifurcation scenarios in helical buckling of slender rods using new FE. <i>International Journal of Engineering Science</i> , 2020 , 147, 103197 | 5.7 | 3 |
| 167 | Dynamics of rotary drilling with non-uniformly distributed blades. <i>International Journal of Mechanical Sciences</i> , 2019 , 160, 270-281 | 5.5 | 16 |
| 166 | Estimation and improvement of cutting safety. <i>Nonlinear Dynamics</i> , 2019 , 98, 2975-2988 | 5 | 6 |
| 165 | Modelling of regenerative and frictional cutting dynamics. <i>International Journal of Mechanical Sciences</i> , 2019 , 156, 86-93 | 5.5 | 16 |
| 164 | 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 |
| 163 | Suppression of Drill-String Stick-Slip Vibration. <i>MATEC Web of Conferences</i> , 2018 , 148, 16008 | 0.3 | 1 |
| 162 | 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 |
| 161 | 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 |

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|-----|--|-----|----|
| 160 | 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 |
| 159 | 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 |
| 158 | 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 |
| 157 | Stability and dynamics of parallel plunge grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 881-895 | 3.2 | 11 |
| 156 | Experimental studies of forward and backward whirls of drill-string. <i>Mechanical Systems and Signal Processing</i> , 2018 , 100, 454-465 | 7.8 | 31 |
| 155 | Helical Buckling of Drill-Strings. <i>MATEC Web of Conferences</i> , 2018 , 148, 16007 | 0.3 | |
| 154 | Helical buckling of thin rods: FE modelling. <i>MATEC Web of Conferences</i> , 2018 , 211, 02010 | 0.3 | 1 |
| 153 | Complex dynamics of drill-strings: Theory and experiments. <i>MATEC Web of Conferences</i> , 2018 , 211, 01002 | 0.3 | 1 |
| 152 | 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 |
| 151 | Calibrated FEM modelling of rock cutting with PDC cutter. <i>MATEC Web of Conferences</i> , 2018 , 148, 16006 | 0.3 | 9 |
| 150 | Experimental bifurcation control of a parametric pendulum. <i>JVC/Journal of Vibration and Control</i> , 2017 , 23, 2256-2268 | 2 | 10 |
| 149 | 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 |
| 148 | Path-Following Bifurcation Analysis of Church Bell Dynamics. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12, | 1.4 | 2 |
| 147 | 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 |
| 146 | RED: Revolutionary Drilling Technology for Hard Rock Formations 2017 , | | 10 |
| 145 | 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 |
| 144 | Improving routing performance of underwater wireless sensor networks 2017 , | | 4 |
| 143 | Basins of attraction of the bistable region of time-delayed cutting dynamics. <i>Physical Review E</i> , 2017 , 96, 032205 | 2.4 | 14 |

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|-----|---|-----|----|
| 142 | State Dependent Delayed Drill-string Vibration: Theory, Experiments and New Model. <i>Procedia IUTAM</i> , 2017 , 22, 39-50 | | 17 |
| 141 | Influence of Workpiece Imbalance on Regenerative and Frictional Grinding Chatters. <i>Procedia IUTAM</i> , 2017 , 22, 146-153 | | 6 |
| 140 | Numerical Study of Forward and Backward Whirling of Drill-String. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12, | 1.4 | 10 |
| 139 | Experimental Investigation of the Vibro-impact Capsule System. <i>Procedia IUTAM</i> , 2017 , 22, 237-243 | | 3 |
| 138 | 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 |
| 137 | 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 |
| 136 | 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 |
| 135 | Geometrical insight into non-smooth bifurcations of a soft impact oscillator. <i>IMA Journal of Applied Mathematics</i> , 2016 , 81, 662-678 | 1 | 17 |
| 134 | Regenerative chatter in self-interrupted plunge grinding. <i>Meccanica</i> , 2016 , 51, 3185-3202 | 2.1 | 12 |
| 133 | Regenerative and frictional chatter in plunge grinding. <i>Nonlinear Dynamics</i> , 2016 , 86, 283-307 | 5 | 13 |
| 132 | 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 |
| 131 | Multi-modes approach to modelling of vortex-induced vibration. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 80, 40-51 | 2.8 | 25 |
| 130 | Experimental verification of the vibro-impact capsule model. <i>Nonlinear Dynamics</i> , 2016 , 83, 1029-1041 | 5 | 51 |
| 129 | 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 |
| 128 | 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 |
| 127 | A three-degree-of-freedom model for vortex-induced vibrations of turbine blades. <i>Meccanica</i> , 2016 , 51, 2607-2628 | 2.1 | 13 |
| 126 | Optimization of the Vibro-Impact Capsule System. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2016 , 62, 430-439 | 1.3 | 15 |
| 125 | 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 |

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| 124 | Stability of periodic modes and bifurcation behaviors in a bouncing-dimer system. <i>Nonlinear Dynamics</i> , 2016 , 86, 1477-1492 | 5 | 5 |
| 123 | Unveiling complexity of drillbitting vibrations: Experiments and modelling. <i>International Journal of Mechanical Sciences</i> , 2015 , 101-102, 324-337 | 5.5 | 81 |
| 122 | Investigation of two different friction models from the perspective of friction-induced vibrations. <i>Tribology International</i> , 2015 , 90, 185-197 | 4.9 | 28 |
| 121 | Attractor reconstruction of an impact oscillator for parameter identification. <i>International Journal of Mechanical Sciences</i> , 2015 , 103, 212-223 | 5.5 | 6 |
| 120 | Modelling of high frequency vibro-impact drilling. <i>International Journal of Mechanical Sciences</i> , 2015 , 91, 110-119 | 5.5 | 72 |
| 119 | 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 |
| 118 | Orthogonal Cutting Process Modelling Considering Tool-workpiece Frictional Effect. <i>Procedia CIRP</i> , 2015 , 31, 429-434 | 1.8 | 13 |
| 117 | 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 |
| 116 | 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 |
| 115 | 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 |
| 114 | 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 |
| 113 | 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 |
| 112 | Synchronous rotational motion of parametric pendulums. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 70, 84-94 | 2.8 | 24 |
| 111 | Experimental studies of the resultant contact forces in drillbit-work interaction. <i>International Journal of Mechanical Sciences</i> , 2015 , 91, 3-11 | 5.5 | 28 |
| 110 | Bifurcation analysis of a piecewise-linear impact oscillator with drift. <i>Nonlinear Dynamics</i> , 2014 , 77, 213-227 | 3.7 | 38 |
| 109 | Modelling of frictional chatter in metal cutting. <i>International Journal of Mechanical Sciences</i> , 2014 , 89, 167-176 | 5.5 | 44 |
| 108 | Chatter in a transverse grinding process. <i>Journal of Sound and Vibration</i> , 2014 , 333, 937-953 | 3.9 | 13 |
| 107 | Experimental control for initiating and maintaining rotation of parametric pendulum. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 795-812 | 2.3 | 11 |

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|-----|--|-----|----|
| 106 | 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 |
| 105 | Numerical and Experimental Control in a Parametric Pendulum using Delayed Feedback Method. <i>IEICE Proceeding Series</i> , 2014 , 2, 174-177 | | |
| 104 | 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 |
| 103 | Vibro-impact responses of capsule system with various friction models. <i>International Journal of Mechanical Sciences</i> , 2013 , 72, 39-54 | 5.5 | 62 |
| 102 | Modelling of a vibro-impact capsule system. <i>International Journal of Mechanical Sciences</i> , 2013 , 66, 2-11 | 5.5 | 75 |
| 101 | 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 |
| 100 | A novel model of dipteran flight mechanism. <i>International Journal of Dynamics and Control</i> , 2013 , 1, 1-11 | 1.7 | 14 |
| 99 | Analysis of the periodic solutions of a smooth and discontinuous oscillator. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013 , 29, 575-582 | 2 | 13 |
| 98 | Galerkin projections for state-dependent delay differential equations with applications to drilling. <i>Applied Mathematical Modelling</i> , 2013 , 37, 1705-1722 | 4.5 | 25 |
| 97 | Intermittent control of coexisting attractors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120428 | 3 | 24 |
| 96 | Parametric Study for Lock-In Detection in Vortex-Induced Vibration of Flexible Risers 2013 , 147-158 | | 1 |
| 95 | Dynamics, Synchronization and Control of Parametric Pendulums 2013 , 185-193 | | 2 |
| 94 | Stability of the Elliptically Excited Pendulum Using the Homoclinic Melnikov Function 2013 , 87-94 | | 1 |
| 93 | Bit-Bounce and Stick-Slip in Drill-String Dynamics 2013 , 323-335 | | |
| 92 | Dynamics of a Drifting Impact Oscillator with a Conical Profile 2013 , 313-321 | | |
| 91 | Optimum energy extraction from rotational motion in a parametrically excited pendulum. <i>Mechanics Research Communications</i> , 2012 , 43, 7-14 | 2.2 | 23 |
| 90 | Singularities in soft-impacting systems. <i>Physica D: Nonlinear Phenomena</i> , 2012 , 241, 553-565 | 3.3 | 33 |
| 89 | Drill-string vibration analysis using non-smooth dynamics approach. <i>Nonlinear Dynamics</i> , 2012 , 70, 1017-1035 | 3.5 | 25 |

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| 88 | BIFURCATION CONTROL OF A PARAMETRIC PENDULUM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250111 | 2 | 27 |
| 87 | 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 |
| 86 | Topology of vibro-impact systems in the neighborhood of grazing. <i>Physica D: Nonlinear Phenomena</i> , 2012 , 241, 1919-1931 | 3.3 | 31 |
| 85 | Suppressing nonlinear resonances in an impact oscillator using SMAs. <i>Smart Materials and Structures</i> , 2012 , 21, 075028 | 3.4 | 13 |
| 84 | 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 |
| 83 | Engineering Applications of Non-smooth Dynamics. <i>Solid Mechanics and Its Applications</i> , 2012 , 211-273 | 0.4 | 6 |
| 82 | 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 |
| 81 | Drifting Impact Oscillator With a New Model of the Progression Phase. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012 , 79, | 2.7 | 18 |
| 80 | 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 |
| 79 | Dynamics of the nearly parametric pendulum. <i>International Journal of Non-Linear Mechanics</i> , 2011 , 46, 436-442 | 2.8 | 37 |
| 78 | 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 |
| 77 | 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 |
| 76 | 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 |
| 75 | Complex Nonlinear Response of a Piecewise Linear Oscillator: Experiment and Simulation. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2011 , 135-143 | 0.3 | 0 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |

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|----|---|-----|-----|
| 70 | 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 |
| 69 | 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 |
| 68 | Special issue on "Dynamics, control and design of non-linear systems with smart structures". <i>International Journal of Non-Linear Mechanics</i> , 2010 , 45, 835-836 | 2.8 | 0 |
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | Vortex-Induced Vibration of Catenary Riser: Reduced-Order Modeling and Lock-In Analysis Using Wake Oscillator 2009 , | | 1 |
| 63 | Estimation of Lyapunov exponents for a system with sensitive friction model. <i>Archive of Applied Mechanics</i> , 2009 , 79, 667-677 | 2.2 | 9 |
| 62 | 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 |
| 61 | 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 |
| 60 | Reduced-order modelling of vortex-induced vibration of catenary riser. <i>Ocean Engineering</i> , 2009 , 36, 1404-1414 | 3.9 | 53 |
| 59 | Identification of chaos in a cutting process by the 0 th test. <i>Chaos, Solitons and Fractals</i> , 2009 , 40, 2095-2103 | 3 | 65 |
| 58 | Asymptotic theory of chaotic synchronization for dissipative-coupled dynamical systems. <i>Chaos, Solitons and Fractals</i> , 2009 , 41, 752-763 | 9.3 | 4 |
| 57 | 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 |
| 56 | Contact Force Models and Dynamics of a Drifting Oscillator 2009 , | | 1 |
| 55 | Dynamics of the archetypal piecewise linear oscillator close to grazing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 76-80 | | |
| 54 | 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 |
| 53 | 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 |

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|----|---|-----|----|
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | Introduction. Experimental nonlinear dynamics of solids. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 675-8 | 3 | |
| 47 | Introduction. Experimental nonlinear dynamics of fluids. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 1227-9 | 3 | |
| 46 | Rotating solutions and stability of parametric pendulum by perturbation method. <i>Journal of Sound and Vibration</i> , 2008 , 310, 243-259 | 3.9 | 72 |
| 45 | 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 |
| 44 | Suppressing grazing chaos in impacting system by structural nonlinearity. <i>Chaos, Solitons and Fractals</i> , 2008 , 38, 864-869 | 9.3 | 24 |
| 43 | Parameter identification of the fatigue-testing rig. <i>International Journal of Mechanical Sciences</i> , 2008 , 50, 1142-1152 | 5.5 | 9 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | Non-linear dynamics of engineering systems. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 459-461 | 2.8 | 3 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | Nonlinear vibration caused by fatigue. <i>Journal of Sound and Vibration</i> , 2007 , 303, 58-77 | 3.9 | 10 |

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|----|---|-----|-----|
| 34 | Low-dimensional maps for piecewise smooth oscillators. <i>Journal of Sound and Vibration</i> , 2007 , 305, 750-770 | 3.7 | 41 |
| 33 | Comparison of Dynamical Responses of an Offshore Riser with Linear and Nonlinear Structural Characteristics Through Nonlinear Normal Modes 2007 , | | 1 |
| 32 | Archetypal oscillator for smooth and discontinuous dynamics. <i>Physical Review E</i> , 2006 , 74, 046218 | 2.4 | 140 |
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