

Marek Borowiec

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

795
citations

471509

17
h-index

526287

27
g-index

48
all docs

48
docs citations

48
times ranked

542
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Chaotic vibration of a quarter-car model excited by the road surface profile. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 1373-1383. | 3.3 | 81 |
| 2 | Performance of a piezoelectric energy harvester driven by air flow. <i>Applied Physics Letters</i> , 2012, 100, 024103. | 3.3 | 58 |
| 3 | Vibration of the Duffing Oscillator: Effect of Fractional Damping. <i>Shock and Vibration</i> , 2007, 14, 29-36. | 0.6 | 52 |
| 4 | Energy harvesting by two magnetopiezoelastic oscillators with mistuning. <i>Theoretical and Applied Mechanics Letters</i> , 2012, 2, 043009. | 2.8 | 49 |
| 5 | Chaotic response of a quarter car model forced by a road profile with a stochastic component. <i>Chaos, Solitons and Fractals</i> , 2009, 39, 2448-2456. | 5.1 | 40 |
| 6 | Complex response of a bistable laminated plate: Multiscale entropy analysis. <i>European Physical Journal Plus</i> , 2014, 129, 1. | 2.6 | 40 |
| 7 | On simulation of a bistable system with fractional damping in the presence of stochastic coherence resonance. <i>Nonlinear Dynamics</i> , 2014, 77, 681-686. | 5.2 | 38 |
| 8 | Vibrations of a vehicle excited by real road profiles. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2010, 74, 99-109. | 1.6 | 35 |
| 9 | ENERGY HARVESTING IN PIEZOELASTIC SYSTEMS DRIVEN BY RANDOM EXCITATIONS. <i>International Journal of Structural Stability and Dynamics</i> , 2013, 13, 1340006. | 2.4 | 33 |
| 10 | Pulsive feedback control of a quarter car model forced by a road profile. <i>Chaos, Solitons and Fractals</i> , 2007, 33, 1672-1676. | 5.1 | 26 |
| 11 | Noise Effected Energy Harvesting in a Beam with Stopper. <i>International Journal of Structural Stability and Dynamics</i> , 2014, 14, 1440020. | 2.4 | 26 |
| 12 | Transition to chaos and escape phenomenon in two-degrees-of-freedom oscillator with a kinematic excitation. <i>Nonlinear Dynamics</i> , 2012, 70, 1125-1133. | 5.2 | 22 |
| 13 | An autoparametric energy harvester. <i>European Physical Journal: Special Topics</i> , 2013, 222, 1597-1605. | 2.6 | 22 |
| 14 | Selected Tribological Properties and Vibrations in the Base Resonance Zone of the Polymer Composite Used in the Aviation Industry. <i>Materials</i> , 2020, 13, 1364. | 2.9 | 22 |
| 15 | Oscillators with asymmetric single and double well potentials: transition to chaos revisited. <i>Acta Mechanica</i> , 2006, 184, 47-59. | 2.1 | 21 |
| 16 | Phase locking and rotational motion of a parametric pendulum in noisy and chaotic conditions. <i>Dynamical Systems</i> , 2008, 23, 259-265. | 0.4 | 20 |
| 17 | Suppression of chaos by weak resonant excitations in a non-linear oscillator with a non-symmetric potential. <i>Chaos, Solitons and Fractals</i> , 2007, 32, 694-701. | 5.1 | 17 |
| 18 | Vibration of generalized double well oscillators. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2007, 87, 590-602. | 1.6 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Nonlinear Response of an Oscillator with a Magneto-Rheological Damper Subjected to External Forcing. Applied Mechanics and Materials, 2006, 5-6, 277-284. | 0.2 | 16 |
| 20 | Energy harvesting of cantilever beam system with linear and nonlinear piezoelectric model. European Physical Journal: Special Topics, 2015, 224, 2771-2785. | 2.6 | 16 |
| 21 | Prediction of Selected Mechanical Properties of Polymer Composites with Alumina Modifiers. Materials, 2022, 15, 882. | 2.9 | 14 |
| 22 | Transition to chaos in the self-excited system with a cubic double well potential and parametric forcing. Chaos, Solitons and Fractals, 2009, 40, 2414-2429. | 5.1 | 13 |
| 23 | Dynamic Response of a Pendulum-Driven Energy Harvester in the Presence of Noise. Journal of Physics: Conference Series, 2013, 476, 012038. | 0.4 | 13 |
| 24 | Energy Harvesting in a Nonlinear Cantilever Piezoelectric Beam System Excited by Random Vertical Vibrations. International Journal of Structural Stability and Dynamics, 2014, 14, 1440018. | 2.4 | 13 |
| 25 | Stability analysis of titanium alloy milling by multiscale entropy and Hurst exponent. European Physical Journal Plus, 2015, 130, 1. | 2.6 | 13 |
| 26 | Vibrations of a delivery car excited by railway track crossing. Chaos, Solitons and Fractals, 2009, 42, 270-276. | 5.1 | 12 |
| 27 | Influence of the Selected Physical Modifier on the Dynamical Behavior of the Polymer Composites Used in the Aviation Industry. Materials, 2020, 13, 5479. | 2.9 | 11 |
| 28 | Energy Harvesting Optimizing with a Magnetostrictive Cantilever Beam System. International Journal of Structural Stability and Dynamics, 2019, 19, 1941002. | 2.4 | 7 |
| 29 | Influence of Mechanical Couplings on the Dynamical Behavior and Energy Harvesting of a Composite Structure. Polymers, 2021, 13, 66. | 4.5 | 7 |
| 30 | Response of a magneto-rheological fluid damper subjected to periodic forcing in a high frequency limit. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2008, 88, 1000-1004. | 1.6 | 5 |
| 31 | Verification of the stability lobes of Inconel 718 milling by recurrence plot applications and composite multiscale entropy analysis. European Physical Journal Plus, 2016, 131, 1. | 2.6 | 5 |
| 32 | Stable and unstable milling process for nickel superalloy as observed by recurrence plots and multiscale entropy. Eksploatacja I Niezawodnosc, 2018, 20, 318-326. | 2.0 | 5 |
| 33 | Dynamic Behavior of Aviation Polymer Composites at Various Weight Fractions of Physical Modifier. Materials, 2021, 14, 6897. | 2.9 | 5 |
| 34 | Analysis of the Macro Fiber Composite Characteristics for Energy Harvesting Efficiency. Springer Proceedings in Mathematics and Statistics, 2016, , 27-37. | 0.2 | 4 |
| 35 | Vertical Vibrations of a Vehicle Excited by Real Road Profiles.. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10713-10714. | 0.2 | 3 |
| 36 | Nonlinear vibration of a quarter-car model excited by the road surface profile. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10893-10894. | 0.2 | 3 |

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|----|---|-----|-----------|
| 37 | Vertical beam modal response in a broadband energy harvester. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2016, 230, 541-552. | 0.8 | 3 |
| 38 | Energy harvesting of a composite beam with optimizing stacking sequence of layers. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 39 | Analytical model and energy harvesting analysis of a vibrating slender rod with added tip mass in three-dimensional space. European Physical Journal: Special Topics, 0, , 1. | 2.6 | 1 |
| 40 | Multiple Solutions and Corresponding Power Output of Nonlinear Piezoelectric Energy Harvester. Springer Proceedings in Mathematics and Statistics, 2016, , 343-350. | 0.2 | 1 |
| 41 | Noisy and chaotic conditions of a pendulum motion. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 643-644. | 0.2 | 0 |
| 42 | Energy harvesting in a nonlinear cantilever beam system excited by harmonic and random vibrations. , 2014, , . | | 0 |
| 43 | Modelling of Energy Harvesting System from Vertically Excited Magnetostrictive Beam. Applied Mechanics and Materials, 2016, 844, 128-137. | 0.2 | 0 |
| 44 | Hybrid vibrational energy harvesting using piezoelectric and magnetostrictive transducers. , 2018, , 153-158. | | 0 |
| 45 | Optimization of the MFC - composite beam energy harvester. Przegląd Elektrotechniczny, 2016, 1, 20-22. | 0.2 | 0 |
| 46 | Energy Harvesting of a Magnetostrictive Beam Model Based on Galfenol Alloy. , 0, , . | | 0 |
| 47 | Study of dynamics and efficiency of hybrid power harvesting system from mechanical vibrations. Przegląd Elektrotechniczny, 2018, 1, 141-143. | 0.2 | 0 |