

# Marek Borowiec

## List of Publications by Year in descending order

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47  
papers

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citations

471509

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526287

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48  
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48  
docs citations

48  
times ranked

542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Selected Mechanical Properties of Polymer Composites with Alumina Modifiers. <i>Materials</i> , 2022, 15, 882.	2.9	14
2	Influence of Mechanical Couplings on the Dynamical Behavior and Energy Harvesting of a Composite Structure. <i>Polymers</i> , 2021, 13, 66.	4.5	7
3	Dynamic Behavior of Aviation Polymer Composites at Various Weight Fractions of Physical Modifier. <i>Materials</i> , 2021, 14, 6897.	2.9	5
4	Influence of the Selected Physical Modifier on the Dynamical Behavior of the Polymer Composites Used in the Aviation Industry. <i>Materials</i> , 2020, 13, 5479.	2.9	11
5	Energy harvesting of a composite beam with optimizing stacking sequence of layers. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
6	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
7	Energy Harvesting Optimizing with a Magnetostrictive Cantilever Beam System. <i>International Journal of Structural Stability and Dynamics</i> , 2019, 19, 1941002.	2.4	7
8	Hybrid vibrational energy harvesting using piezoelectric and magnetostrictive transducers. , 2018, , 153-158.		0
9	Stable and unstable milling process for nickel superalloy as observed by recurrence plots and multiscale entropy. <i>Eksploracja I Niezawodnosc</i> , 2018, 20, 318-326.	2.0	5
10	Study of dynamics and efficiency of hybrid power harvesting system from mechanical vibrations. <i>Przegląd Elektrotechniczny</i> , 2018, 1, 141-143.	0.2	0
11	Modelling of Energy Harvesting System from Vertically Excited Magnetostrictive Beam. <i>Applied Mechanics and Materials</i> , 2016, 844, 128-137.	0.2	0
12	Verification of the stability lobes of Inconel 718 milling by recurrence plot applications and composite multiscale entropy analysis. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	5
13	Vertical beam modal response in a broadband energy harvester. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2016, 230, 541-552.	0.8	3
14	Multiple Solutions and Corresponding Power Output of Nonlinear Piezoelectric Energy Harvester. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016, , 343-350.	0.2	1
15	Analysis of the Macro Fiber Composite Characteristics for Energy Harvesting Efficiency. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016, , 27-37.	0.2	4
16	Optimization of the MFC - composite beam energy harvester. <i>Przegląd Elektrotechniczny</i> , 2016, 1, 20-22.	0.2	0
17	Energy harvesting of cantilever beam system with linear and nonlinear piezoelectric model. <i>European Physical Journal: Special Topics</i> , 2015, 224, 2771-2785.	2.6	16
18	Stability analysis of titanium alloy milling by multiscale entropy and Hurst exponent. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	13

#	ARTICLE	IF	CITATIONS
19	Energy harvesting in a nonlinear cantilever beam system excited by harmonic and random vibrations. , 2014, , .		0
20	Complex response of a bistable laminated plate: Multiscale entropy analysis. European Physical Journal Plus, 2014, 129, 1.	2.6	40
21	Noise Effected Energy Harvesting in a Beam with Stopper. International Journal of Structural Stability and Dynamics, 2014, 14, 1440020.	2.4	26
22	Energy Harvesting in a Nonlinear Cantilever Piezoelastic Beam System Excited by Random Vertical Vibrations. International Journal of Structural Stability and Dynamics, 2014, 14, 1440018.	2.4	13
23	On simulation of a bistable system with fractional damping in the presence of stochastic coherence resonance. Nonlinear Dynamics, 2014, 77, 681-686.	5.2	38
24	An autoparametric energy harvester. European Physical Journal: Special Topics, 2013, 222, 1597-1605.	2.6	22
25	Dynamic Response of a Pendulum-Driven Energy Harvester in the Presence of Noise. Journal of Physics: Conference Series, 2013, 476, 012038.	0.4	13
26	ENERGY HARVESTING IN PIEZOELASTIC SYSTEMS DRIVEN BY RANDOM EXCITATIONS. International Journal of Structural Stability and Dynamics, 2013, 13, 1340006.	2.4	33
27	Energy harvesting by two magnetopiezoelastic oscillators with mistuning. Theoretical and Applied Mechanics Letters, 2012, 2, 043009.	2.8	49
28	Transition to chaos and escape phenomenon in two-degrees-of-freedom oscillator with a kinematic excitation. Nonlinear Dynamics, 2012, 70, 1125-1133.	5.2	22
29	Performance of a piezoelectric energy harvester driven by air flow. Applied Physics Letters, 2012, 100, 024103.	3.3	58
30	Vibrations of a vehicle excited by real road profiles. Forschung Im Ingenieurwesen/Engineering Research, 2010, 74, 99-109.	1.6	35
31	Noisy and chaotic conditions of a pendulum motion. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 643-644.	0.2	0
32	Chaotic response of a quarter car model forced by a road profile with a stochastic component. Chaos, Solitons and Fractals, 2009, 39, 2448-2456.	5.1	40
33	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
34	Vibrations of a delivery car excited by railway track crossing. Chaos, Solitons and Fractals, 2009, 42, 270-276.	5.1	12
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	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
38	Chaotic vibration of a quarter-car model excited by the road surface profile. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1373-1383.	3.3	81
39	Phase locking and rotational motion of a parametric pendulum in noisy and chaotic conditions. Dynamical Systems, 2008, 23, 259-265.	0.4	20
40	Vibration of the Duffing Oscillator: Effect of Fractional Damping. Shock and Vibration, 2007, 14, 29-36.	0.6	52
41	Suppression of chaos by weak resonant excitations in a non-linear oscillator with a non-symmetric potential. Chaos, Solitons and Fractals, 2007, 32, 694-701.	5.1	17
42	Pulsive feedback control of a quarter car model forced by a road profile. Chaos, Solitons and Fractals, 2007, 33, 1672-1676.	5.1	26
43	Vibration of generalized double well oscillators. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2007, 87, 590-602.	1.6	17
44	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
45	Oscillators with asymmetric single and double well potentials: transition to chaos revisited. Acta Mechanica, 2006, 184, 47-59.	2.1	21
46	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
47	Energy Harvesting of a Magnetostrictive Beam Model Based on Galfenol Alloy. , 0, , .		0