Daniil Yurchenko

List of Publications by Year
in descending order

77	3,212	172386 29	155592 55
papers	citations	h-index	g-index

78	78	78	1253
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-performance piezoelectric wind energy harvester with Y-shaped attachments. Energy Conversion and Management, 2019, 181, 645-652.	4.4	388
2	The state-of-the-art review on energy harvesting from flow-induced vibrations. Applied Energy, 2020, 267, 114902.	5.1	361
3	A double-beam piezo-magneto-elastic wind energy harvester for improving the galloping-based energy harvesting. Applied Physics Letters, 2019, 115, .	1.5	181
4	Rotational energy harvesting for self-powered sensing. Joule, 2021, 5, 1074-1118.	11.7	172
5	Hybrid wind energy scavenging by coupling vortex-induced vibrations and galloping. Energy Conversion and Management, 2020, 213, 112835.	4.4	150
6	Multistability phenomenon in signal processing, energy harvesting, composite structures, and metamaterials: A review. Mechanical Systems and Signal Processing, 2022, 166, 108419.	4.4	136
7	A hybrid piezo-dielectric wind energy harvester for high-performance vortex-induced vibration energy harvesting. Mechanical Systems and Signal Processing, 2021, 150, 107212.	4.4	113
8	Design, modeling and experiments of broadband tristable galloping piezoelectric energy harvester. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 592-605.	1.5	110
9	Harvest wind energy from a vibro-impact DEG embedded into a bluff body. Energy Conversion and Management, 2019, 199, 111993.	4.4	85
10	Parametric study of a novel vibro-impact energy harvesting system with dielectric elastomer. Applied Energy, 2017, 208, 456-470.	5.1	67
11	Enhancement of low-speed piezoelectric wind energy harvesting by bluff body shapes: Spindle-like and butterfly-like cross-sections. Aerospace Science and Technology, 2020, 103, 105898.	2.5	63
12	Parametric pendulum based wave energy converter. Mechanical Systems and Signal Processing, 2018, 99, 504-515.	4.4	59
13	Perspectives in flow-induced vibration energy harvesting. Applied Physics Letters, 2021, 119, 100502.	1.5	58
14	Advantages of nonlinear energy harvesting with dielectric elastomers. Journal of Sound and Vibration, 2019, 442, 167-182.	2.1	57
15	On energy harvesting from a vibro-impact oscillator with dielectric membranes. Mechanical Systems and Signal Processing, 2018, 107, 105-121.	4.4	55
16	Dynamics of the double-beam piezoâ€“magnetoâ€“elastic nonlinear wind energy harvester exhibiting galloping-based vibration. Nonlinear Dynamics, 2020, 100, 1963-1983.	2.7	51
17	Machine learning based prediction of piezoelectric energy harvesting from wake galloping. Mechanical Systems and Signal Processing, 2021, 160, 107876.	4.4	51
18	Increased power output of an electromagnetic vibration energy harvester through anti-phase resonance. Mechanical Systems and Signal Processing, 2019, 116, 129-145.	4.4	47

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19	Enhancing vortex-induced vibrations of a cylinder with rod attachments for hydrokinetic power generation. Mechanical Systems and Signal Processing, 2020, 145, 106912.	4.4	47
20	Energy harvesting from a novel contact-type dielectric elastomer generator. Energy Conversion and Management, 2020, 205, 112351.	4.4	44
21	Pendulum's rotational motion governed by a stochastic Mathieu equation. Probabilistic Engineering Mechanics, 2013, 31, 12-18.	1.3	43
22	Energy harvesting from a DE-based dynamic vibro-impact system. Smart Materials and Structures, 2017, 26, 105001.	1.8	41
23	Dynamics of the N-pendulum and its application to a wave energy converter concept. International Journal of Dynamics and Control, 2013, 1, 290-299.	1.5	39
24	Experimental investigation of a rotating parametric pendulum. Nonlinear Dynamics, 2015, 81, 201-213.	2.7	36
25	On enhancement of vibration-based energy harvesting by a random parametric excitation. Journal of Sound and Vibration, 2016, 366, 407-417.	2.1	36
26	Wind energy harvesting from a conventional turbine structure with an embedded vibro-impact dielectric elastomer generator. Journal of Sound and Vibration, 2020, 487, 115616.	2.1	36
27	Nonlinear dynamics of a new energy harvesting system with quasi-zero stiffness. Applied Energy, 2022, 307, 118159.	5.1	34
28	Modeling and analysis of a three-degree-of-freedom piezoelectric vibration energy harvester for broadening bandwidth. Mechanical Systems and Signal Processing, 2022, 176, 109169.	4.4	32
29	On mechanical damping of cantilever beam-based electromagnetic resonators. Mechanical Systems and Signal Processing, 2019, 119, 120-137.	4.4	30
30	On the analysis of the tristable vibration isolation system with delayed feedback control under parametric excitation. Mechanical Systems and Signal Processing, 2022, 164, 108207.	4.4	29
31	Energy harvesting from a dynamic vibro-impact dielectric elastomer generator subjected to rotational excitations. Nonlinear Dynamics, 2020, 102, 1271-1284.	2.7	27
32	A novel electromagnetic energy harvester based on the bending of the sole. Applied Energy, 2022, 314, 119000.	5.1	27
33	Important considerations in optimising the structural aspect of a SDOF electromagnetic vibration energy harvester. Journal of Sound and Vibration, 2020, 482, 115470.	2.1	26
34	Stability, control and reliability of a ship crane payload motion. Probabilistic Engineering Mechanics, 2014, 38, 173-179.	1.3	25
35	A novel high-power density, low-frequency electromagnetic vibration energy harvester based on anti-phase motion. Energy Conversion and Management, 2021, 238, 114175.	4.4	25
36	GPU computing for accelerating the numerical Path Integration approach. Computers and Structures, 2016, 171, 46-53.	2.4	24

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37	Multi-dimensional constrained energy optimization of a piezoelectric harvester for E-gadgets. IScience, 2021, 24, 102749.	1.9	24
38	Stability and bifurcation analysis of the period-T motion of a vibroimpact energy harvester. Nonlinear Dynamics, 2019, 98, 1807-1819.	2.7	21
39	Stochastic and deterministic responses of an asymmetric quad-stable energy harvester. Mechanical Systems and Signal Processing, 2022, 168, 108672.	4.4	21
40	Stochastic rotational response of a parametric pendulum coupled with an SDOF system. Probabilistic Engineering Mechanics, 2014, 37, 124-131.	1.3	20
41	Usefulness of inclined circular cylinders for designing ultra-wide bandwidth piezoelectric energy harvesters: Experiments and computational investigations. Energy, 2022, 239, 122203.	4.5	20
42	Global optimisation approach for designing high-efficiency piezoelectric beam-based energy harvesting devices. Nano Energy, 2022, 93, 106684.	8.2	19
43	Pendulum energy converter excited by random loads. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 349-366.	0.9	18
44	Nonlinear vibration mitigation of a craneâ€™s payload using pendulum absorber. Mechanical Systems and Signal Processing, 2021, 156, 107558.	4.4	18
45	Stochastic Dynamics of a Parametrically base Excited Rotating Pendulum. Procedia IUTAM, 2013, 6, 160-168.	1.2	17
46	Post-grazing dynamics of a vibro-impacting energy generator. Journal of Sound and Vibration, 2021, 492, 115811.	2.1	16
47	Solution of the Feedback Control Problem in the Mathematical Model of Leukaemia Therapy. Journal of Optimization Theory and Applications, 2013, 159, 590-605.	0.8	15
48	Dynamics of a parametric rotating pendulum under a realistic wave profile. International Journal of Dynamics and Control, 2016, 4, 233-238.	1.5	15
49	Predicting energy output of a stochastic nonlinear dielectric elastomer generator. Energy Conversion and Management, 2019, 196, 1445-1452.	4.4	15
50	Dynamic response mechanism of the galloping energy harvester under fluctuating wind conditions. Mechanical Systems and Signal Processing, 2022, 166, 108410.	4.4	15
51	Structural optimisation through material selections for multi-cantilevered vibration electromagnetic energy harvesters. Mechanical Systems and Signal Processing, 2022, 162, 108044.	4.4	14
52	Maximization of viability time in aÂmathematical model of cancer therapy. Mathematical Biosciences, 2017, 294, 110-119.	0.9	13
53	Stability of an autoparametric pendulum system with impacts. Journal of Sound and Vibration, 2014, 333, 7233-7247.	2.1	12
54	Stochastic synchronization of rotating parametric pendulums. Meccanica, 2014, 49, 1945-1954.	1.2	11

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55	Dielectric Elastomers for Energy Harvesting. , 0, , .		11
56	Dynamic response of the spherical pendulum subjected to horizontal Lissajous excitation. Nonlinear Dynamics, 2020, 102, 2125-2142.	2.7	10
57	A two-stage electromagnetic coupling and structural optimisation for vibration energy harvesters. Smart Materials and Structures, 2020, 29, 085030.	1.8	10
58	Improving the performance of a two-sided vibro-impact energy harvester with asymmetric restitution coefficients. International Journal of Mechanical Sciences, 2022, 217, 106983.	3.6	9
59	Structural acoustic controlled active micro-perforated panel absorber for improving wide-band low frequency sound absorption. Mechanical Systems and Signal Processing, 2022, 178, 109295.	4.4	9
60	Resilience of Critical Infrastructure Systems to Floods: A Coupled Probabilistic Network Flow and LISFLOOD-FP Model. Water (Switzerland), 2022, 14, 683.	1.2	7
61	Enhancing energy harvesting by a linear stochastic oscillator. Probabilistic Engineering Mechanics, 2016, 43, 1-4.	1.3	6
62	Dynamics and optimization of a new double-axle flexible bogie for high-speed trains. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1549-1558.	1.3	5
63	Offshore crane non-linear stochastic response: novel design and extreme response by a path integration. Ships and Offshore Structures, 2022, 17, 1294-1300.	0.9	5
64	Stochastic vibration responses of the bistable electromagnetic actuator with elastic boundary controlled by the random signals. Nonlinear Dynamics, 2022, 108, 113-140.	2.7	5
65	Performance increase of wave energy harvesting of a guided point absorber. European Physical Journal: Special Topics, 2022, 231, 1465-1473.	1.2	5
66	On the investigation of ash deposition effect on flow-induced vibration energy harvesting. Mechanical Systems and Signal Processing, 2022, 174, 109092.	4.4	5
67	Control and dynamics of a SDOF system with piecewise linear stiffness and combined external excitations. Probabilistic Engineering Mechanics, 2014, 35, 118-124.	1.3	4
68	Suppression of self-excited vibrations by a random parametric excitation. Nonlinear Dynamics, 2017, 90, 1671-1679.	2.7	4
69	Tuned Mass and Parametric Pendulum Dampers Under Seismic Vibrations. , 2015, , 1-22.		4
70	Beneficial Effect of Noise in Suppression of Self-Excited Vibrations. Fluctuation and Noise Letters, 2014, 13, 1450022.	1.0	1
71	Optimal investment strategies in a certain class of stochastic Mertonâ€™s terminal wealth problems. International Journal of Dynamics and Control, 2017, 5, 771-782.	1.5	1
72	Implementing a GPU-based numerical algorithm for modelling dynamics of a high-speed train. Vehicle System Dynamics, 2018, 56, 621-637.	2.2	1

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73	Updatable Probabilistic Evaluation of Failure Rates of Mechanical Components in Power Take-Off Systems of Tidal Stream Turbines. Energies, 2021, 14, 6586.	1.6	1
74	Noise-induced suppression of resonant vibrations. International Journal of Dynamics and Control, 2013, 1, 277-282.	1.5	0
75	Energy Response Probability Density Function of a Rotating Parametric Pendulum. , 2014, , .		0
76	Tuned Mass and Parametric Pendulum Dampers Under Seismic Vibrations. , 2015, , 3796-3814.		0
77	Use of half-cylinder obstacle for enhancing aeroelastic energy harvesting. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-15.	1.2	0