Shaikh Faruque Ali

List of Publications by Year
in descending order

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92 papers	1,887 citations	257101 24 h-index	264894 42 g-index
96 all docs	96 docs citations	96 times ranked	1230 citing authors

#	Article	IF	Citations
1	Nonlinear dynamics and control of helicopter ground resonance. JVC/Journal of Vibration and Control, 2022, 28, 1486-1501.	1.5	5
2	Piezoelectric unimorph and bimorph cantilever configurations: Design guidelines and strain assessment. Smart Materials and Structures, 2022, 31, 035003.	1.8	3
3	Influence of asymmetric potential on multiple solutions of the bi-stable piezoelectric harvester. European Physical Journal: Special Topics, 2022, 231, 1443-1464.	1.2	4
4	Dynamics of Bi-stable Energy Harvesters with Delayed Feedback Control. IFAC-PapersOnLine, 2022, 55, 411-416.	0.5	0
5	Optimal distributed actuator design for control of beams. IFAC-PapersOnLine, 2022, 55, 673-678.	0.5	1
6	Stochastic reduced order modelling and analysis of rotating bladed discs. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	1.0	1
7	Energy harvesting: materials, structures and methods. European Physical Journal: Special Topics, 2022, 231, 1355-1358.	1.2	4
8	Dynamics of symmetric and asymmetric potential well-based piezoelectric harvesters: A comprehensive review. Journal of Intelligent Material Systems and Structures, 2021, 32, 1881-1947.	1.4	24
9	Studies on large deflection of geometrically nonlinear corrugated structures. Acta Mechanica, 2021, 232, 461-482.	1.1	6
10	Exploring 1:3 internal resonance for broadband piezoelectric energy harvesting. Mechanical Systems and Signal Processing, 2021, 153, 107493.	4.4	24
11	Uncertainty quantification of bladed disc systems using data driven stochastic reduced order models. International Journal of Mechanical Sciences, 2021, 190, 106011.	3.6	8
12	Hybrid bistable composite laminates for structural assemblies: A numerical and experimental study. Composite Structures, 2021, 260, 113467.	3.1	22
13	Magnetic actuation of switchable bistable structures: a numerical study. Smart Materials and Structures, 2021, 30, 075025.	1.8	3
14	Static condensation based reduced order modelling of stochastically parametered large ordered systems. Probabilistic Engineering Mechanics, 2021, 66, 103166.	1.3	3
15	Theoretical and experimental studies on large deflection analysis of double corrugated cantilever structures. International Journal of Solids and Structures, 2021, 228, 111126.	1.3	5
16	Parametric Uncertainty and Random Excitation in Energy Harvesting Dynamic Vibration Absorber. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2021, 7, .	0.7	6
17	Design of a Flow Control Device Using a Special Class of Hybrid Symmetric Bistable Laminates in Clamped Boundary Condition. Lecture Notes in Mechanical Engineering, 2021, , 587-596.	0.3	1
18	Analysis of Stepped Beam Using Reduced Order Models. Lecture Notes in Mechanical Engineering, 2021, , 21-33.	0.3	0

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19	Design of a Nonlinear Energy Harvesting Dynamic Vibration Absorber. Lecture Notes in Mechanical Engineering, 2021, , 563-571.	0.3	0
20	SEREP Integrated Control of Flexible Structures. IFAC-PapersOnLine, 2020, 53, 51-56.	0.5	2
21	Modeling of integrated shape memory alloy and Macro-Fiber Composite actuated trailing edge. Smart Materials and Structures, 2020, 29, 085005.	1.8	8
22	Numerical Study of Camber Morphing in NACA0012 Airfoil. , 2020, , .		3
23	Modeling and design of a class of hybrid bistable symmetric laminates with cantilever boundary configuration. Composite Structures, 2020, 239, 112019.	3.1	29
24	Design and conception of a trailing edge morphing wing concept with bistable composite skin. , 2020, , .		3
25	Analysis of Tristable Energy Harvesters Under Random Excitations. Lecture Notes in Mechanical Engineering, 2020, , 517-528.	0.3	0
26	A Nonlinear Hybrid Energy Harvester. Lecture Notes in Mechanical Engineering, 2020, , 605-614.	0.3	1
27	Compliant structure under follower forces and any combined loading: Theoretical and experimental studies. International Journal of Mechanical Sciences, 2019, 153-154, 75-82.	3.6	14
28	Energy harvesting from chaos in base excited double pendulum. Mechanical Systems and Signal Processing, 2019, 124, 49-64.	4.4	59
29	Influence of Piezoelectric Energy Transfer on the Interwell Oscillations of Multistable Vibration Energy Harvesters. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	5
30	Energy Harvesting From Dynamic Vibration Pendulum Absorber. Lecture Notes in Civil Engineering, 2019, , 467-478.	0.3	10
31	Shape prediction of a composite wing panel under the action of an SMA wire and an MFC bimorph. , 2019, , .		1
32	Random Field Modeling and Analysis of Rotor Bladed Disc Sector Using a Data Driven PCE Based Approach. , 2019, , .		1
33	Energy generation in a hybrid harvester under harmonic excitation. Energy Conversion and Management, 2018, 155, 10-19.	4.4	67
34	Optimal Placement and Shape Morphing Of Thin Plates Using Dynamic Inversion Design. IFAC-PapersOnLine, 2018, 51, 72-77.	0.5	0
35	Structural and Aerodynamics Studies on Various Wing Configurations for Morphing. IFAC-PapersOnLine, 2018, 51, 498-503.	0.5	18
36	Vibration Energy Harvesting for Monitoring Dynamical Systems. Shock and Vibration, 2018, 2018, 1-2.	0.3	1

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37	Fluorinated Nanocellulose-Reinforced All-Organic Flexible Ferroelectric Nanocomposites for Energy Generation. Journal of Physical Chemistry C, 2018, 122, 16540-16549.	1.5	20
38	Analysis and experiment of magneto-mechanically coupled harvesters. Mechanical Systems and Signal Processing, 2018, 108, 304-316.	4.4	24
39	Stabilization of limit cycles in the Lorenz attractor through the orbit closure method. , 2018, , .		0
40	Investigation of a hybrid piezo-electromagnetic energy harvester. TM Technisches Messen, 2018, 85, 541-552.	0.3	10
41	Exploring the benefits of an asymmetric monostable potential function in broadband vibration energy harvesting. Applied Physics Letters, 2018, 112, .	1.5	33
42	Theoretical modeling of a 2D nano-energy harvester. , 2018, , .		0
43	Semi-Active Control of Stay Cable Vibrations Using Magnetorheological Damper. , 2018, , .		0
44	Magneto-elastic oscillator: Modeling and analysis with nonlinear magnetic interaction. Journal of Sound and Vibration, 2017, 393, 265-284.	2.1	42
45	Control of ground resonance in helicopters using semi active damping. , 2017, , .		2
46	Broadband energy harvesting with mechanically coupled harvesters. Sensors and Actuators A: Physical, 2017, 255, 1-9.	2.0	31
47	Magneto-mechanically coupled electromagnetic harvesters for broadband energy harvesting. Applied Physics Letters, 2017, 111, .	1.5	24
48	Investigations on a vortex induced vibration based energy harvester. Applied Physics Letters, 2017, 111, .	1.5	24
49	Active vibration control and shape morphing of thin plates using dynamic inversion technique. , 2017, , .		0
50	Creation and stabilization of limit cycles in chaotic attractors through closure of orbits. , 2017, , .		1
51	Magneto-mechanically coupled energy harvesters. , 2016, , .		0
52	Analysis of Harvesting Energy from Mistuned Multiple Harvesters with and without Coupling. Procedia Engineering, 2016, 144, 621-628.	1.2	7
53	Active Vibration Control of Thin Plate Using Optimal Dynamic Inversion Technique. IFAC-PapersOnLine, 2016, 49, 326-331.	0.5	4
54	Harvesting Energy from Vibration Absorber under Random Excitations. IFAC-PapersOnLine, 2016, 49, 807-812.	0.5	15

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55	Enhanced Energy Harvesting from Nonlinear Oscillators via Chaos Control. IFAC-PapersOnLine, 2016, 49, 35-40.	0.5	21
56	Effect of Road Surface, Vehicle, and Device Characteristics on Energy Harvesting from Bridgeâ€“Vehicle Interactions. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 921-935.	6.3	35
57	Piezomagnetoelastic broadband energy harvester: Nonlinear modeling and characterization. European Physical Journal: Special Topics, 2015, 224, 2803-2822.	1.2	28
58	Broadband Vibration Energy Harvesting from a Vertical Cantilever Piezocomposite Beam with Tip Mass. International Journal of Structural Stability and Dynamics, 2015, 15, 1450038.	1.5	32
59	Dynamic response mitigation of floating wind turbine platforms using tuned liquid column dampers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140079.	1.6	40
60	Performance of a Single Liquid Column Damper for the Control of Dynamic Responses of a Tension Leg Platform. Journal of Physics: Conference Series, 2015, 628, 012058.	0.3	3
61	Analysis of energy harvesting from multiple pendulums with and without mechanical coupling. European Physical Journal: Special Topics, 2015, 224, 2823-2838.	1.2	43
62	The effect of noise on the response of a vertical cantilever beam energy harvester. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 433-443.	0.9	27
63	Energy Harvesting from Near Periodic Structures. Mechanisms and Machine Science, 2015, , 411-420.	0.3	10
64	Energy Harvesting Dynamic Vibration Absorbers. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	88
65	Base excited hybrid energy harvesting. , 2013, , .		2
66	Non-Linear Piezoelectric Vibration Energy Harvesting From a Vertical Cantilever Beam With Tip Mass. , 2013, , .		2
67	Energy harvesting dynamic vibration absorber under random vibration. , 2013, , .		8
68	ENERGY HARVESTING IN PIEZOELASTIC SYSTEMS DRIVEN BY RANDOM EXCITATIONS. International Journal of Structural Stability and Dynamics, 2013, 13, 1340006.	1.5	33
69	Non-linear piezoelectric vibration energy harvesting from a vertical cantilever beam with tip mass. Journal of Intelligent Material Systems and Structures, 2012, 23, 1505-1521.	1.4	302
70	Nonlinear oscillations of an elastic inverted pendulum. , 2012, , .		12
71	Analysis of energy harvesters for highway bridges. Journal of Intelligent Material Systems and Structures, 2011, 22, 1929-1938.	1.4	109
72	The analysis of piezomagnetoelastic energy harvesters under broadband random excitations. Journal of Applied Physics, 2011, 109, .	1.1	102

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73	Optimal blood glucose regulation of diabetic patients using single network adaptive critics. Optimal Control Applications and Methods, 2011, 32, 196-214.	1.3	47
74	Analysis of magnetopiezoelastic energy harvesters under random excitations: an equivalent linearization approach. , 2011, , .		0
75	Control of Transient Coupled Radiative-conductive Heat Transfer Equation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 424-429.	0.4	0
76	An approximate modeling of 1d transient heat transfer in a gray participating medium. , 2010, , .		1
77	Piezoelectric energy harvesting with parametric uncertainty. Smart Materials and Structures, 2010, 19, 105010.	1.8	71
78	Testing and Modeling of MR Damper and Its Application to SDOF Systems Using Integral Backstepping Technique. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	0.9	30
79	Active vibration suppression of non-linear beams using optimal dynamic inversion. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2009, 223, 657-672.	0.7	14
80	Hybrid structural control using magnetorheological dampers for base isolated structures. Smart Materials and Structures, 2009, 18, 055011.	1.8	38
81	Optimal dynamic inversion-based semi-active control of benchmark bridge using MR dampers. Structural Control and Health Monitoring, 2009, 16, 564-585.	1.9	25
82	An account of chronological developments in control of distributed parameter systems. Annual Reviews in Control, 2009, 33, 59-68.	4.4	91
83	Optimal blood glucose regulation using single network adaptive critics. , 2009, , .		1
84	Optimal fuzzy logic control for MDOF structural systems using evolutionary algorithms. Engineering Applications of Artificial Intelligence, 2009, 22, 407-419.	4.3	59
85	GA-optimized FLC-driven semi-active control for phase-II smart nonlinear base-isolated benchmark building. Structural Control and Health Monitoring, 2008, 15, 797-820.	1.9	15
86	Active Vibration Suppression of One-dimensional Nonlinear Structures Using Optimal Dynamic Inversion. , 2007, , .		2
87	Developments in Structural Optimization and Applications to Intelligent Structural Vibration Control. , 2007, , 101-121.		5
88	Active Vibration Suppression of Beams with Discrete Actuators Using Optimal Dynamic Inversion. , 2006, , .		0
89	Benchmark Control Problem for Highway Bridge Based on FLC. , 2006, , 1.		5
90	Nonlinear Structural Control Using Magnetorheological Damper. , 0, , 300-332.		0

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91	Nonlinear Structural Control Using Magnetorheological Damper. , 0, , 211-244.		0
92	Broadband power generation using an array of bistable harvesters. European Physical Journal: Special Topics, 0, , 1.	1.2	5