

# Shaikh Faruque Ali

## List of Publications by Year in descending order

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92  
papers

1,887  
citations

257357

24  
h-index

265120

42  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1230  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Analysis of energy harvesters for highway bridges. Journal of Intelligent Material Systems and Structures, 2011, 22, 1929-1938.	1.4	109
3	The analysis of piezomagnetoelastic energy harvesters under broadband random excitations. Journal of Applied Physics, 2011, 109, .	1.1	102
4	An account of chronological developments in control of distributed parameter systems. Annual Reviews in Control, 2009, 33, 59-68.	4.4	91
5	Energy Harvesting Dynamic Vibration Absorbers. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	88
6	Piezoelectric energy harvesting with parametric uncertainty. Smart Materials and Structures, 2010, 19, 105010.	1.8	71
7	Energy generation in a hybrid harvester under harmonic excitation. Energy Conversion and Management, 2018, 155, 10-19.	4.4	67
8	Optimal fuzzy logic control for MDOF structural systems using evolutionary algorithms. Engineering Applications of Artificial Intelligence, 2009, 22, 407-419.	4.3	59
9	Energy harvesting from chaos in base excited double pendulum. Mechanical Systems and Signal Processing, 2019, 124, 49-64.	4.4	59
10	Optimal blood glucose regulation of diabetic patients using single network adaptive critics. Optimal Control Applications and Methods, 2011, 32, 196-214.	1.3	47
11	Analysis of energy harvesting from multiple pendulums with and without mechanical coupling. European Physical Journal: Special Topics, 2015, 224, 2823-2838.	1.2	43
12	Magneto-elastic oscillator: Modeling and analysis with nonlinear magnetic interaction. Journal of Sound and Vibration, 2017, 393, 265-284.	2.1	42
13	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
14	Hybrid structural control using magnetorheological dampers for base isolated structures. Smart Materials and Structures, 2009, 18, 055011.	1.8	38
15	Effect of Road Surface, Vehicle, and Device Characteristics on Energy Harvesting from Bridge-Vehicle Interactions. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 921-935.	6.3	35
16	ENERGY HARVESTING IN PIEZOELASTIC SYSTEMS DRIVEN BY RANDOM EXCITATIONS. International Journal of Structural Stability and Dynamics, 2013, 13, 1340006.	1.5	33
17	Exploring the benefits of an asymmetric monostable potential function in broadband vibration energy harvesting. Applied Physics Letters, 2018, 112, .	1.5	33
18	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

#	ARTICLE	IF	CITATIONS
19	Broadband energy harvesting with mechanically coupled harvesters. <i>Sensors and Actuators A: Physical</i> , 2017, 255, 1-9.	2.0	31
20	Testing and Modeling of MR Damper and Its Application to SDOF Systems Using Integral Backstepping Technique. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009, 131, .	0.9	30
21	Modeling and design of a class of hybrid bistable symmetric laminates with cantilever boundary configuration. <i>Composite Structures</i> , 2020, 239, 112019.	3.1	29
22	Piezomagnetoelastic broadband energy harvester: Nonlinear modeling and characterization. <i>European Physical Journal: Special Topics</i> , 2015, 224, 2803-2822.	1.2	28
23	The effect of noise on the response of a vertical cantilever beam energy harvester. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2015, 95, 433-443.	0.9	27
24	Optimal dynamic inversion-based semi-active control of benchmark bridge using MR dampers. <i>Structural Control and Health Monitoring</i> , 2009, 16, 564-585.	1.9	25
25	Magneto-mechanically coupled electromagnetic harvesters for broadband energy harvesting. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	24
26	Investigations on a vortex induced vibration based energy harvester. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	24
27	Analysis and experiment of magneto-mechanically coupled harvesters. <i>Mechanical Systems and Signal Processing</i> , 2018, 108, 304-316.	4.4	24
28	Dynamics of symmetric and asymmetric potential well-based piezoelectric harvesters: A comprehensive review. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 1881-1947.	1.4	24
29	Exploring 1:3 internal resonance for broadband piezoelectric energy harvesting. <i>Mechanical Systems and Signal Processing</i> , 2021, 153, 107493.	4.4	24
30	Hybrid bistable composite laminates for structural assemblies: A numerical and experimental study. <i>Composite Structures</i> , 2021, 260, 113467.	3.1	22
31	Enhanced Energy Harvesting from Nonlinear Oscillators via Chaos Control. <i>IFAC-PapersOnLine</i> , 2016, 49, 35-40.	0.5	21
32	Fluorinated Nanocellulose-Reinforced All-Organic Flexible Ferroelectric Nanocomposites for Energy Generation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16540-16549.	1.5	20
33	Structural and Aerodynamics Studies on Various Wing Configurations for Morphing. <i>IFAC-PapersOnLine</i> , 2018, 51, 498-503.	0.5	18
34	GA-optimized FLC-driven semi-active control for phase-II smart nonlinear base-isolated benchmark building. <i>Structural Control and Health Monitoring</i> , 2008, 15, 797-820.	1.9	15
35	Harvesting Energy from Vibration Absorber under Random Excitations. <i>IFAC-PapersOnLine</i> , 2016, 49, 807-812.	0.5	15
36	Active vibration suppression of non-linear beams using optimal dynamic inversion. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2009, 223, 657-672.	0.7	14

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37	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
38	Nonlinear oscillations of an elastic inverted pendulum. , 2012, , .		12
39	Investigation of a hybrid piezo-electromagnetic energy harvester. TM Technisches Messen, 2018, 85, 541-552.	0.3	10
40	Energy Harvesting from Near Periodic Structures. Mechanisms and Machine Science, 2015, , 411-420.	0.3	10
41	Energy Harvesting From Dynamic Vibration Pendulum Absorber. Lecture Notes in Civil Engineering, 2019, , 467-478.	0.3	10
42	Energy harvesting dynamic vibration absorber under random vibration. , 2013, , .		8
43	Modeling of integrated shape memory alloy and Macro-Fiber Composite actuated trailing edge. Smart Materials and Structures, 2020, 29, 085005.	1.8	8
44	Uncertainty quantification of bladed disc systems using data driven stochastic reduced order models. International Journal of Mechanical Sciences, 2021, 190, 106011.	3.6	8
45	Analysis of Harvesting Energy from Mistuned Multiple Harvesters with and without Coupling. Procedia Engineering, 2016, 144, 621-628.	1.2	7
46	Studies on large deflection of geometrically nonlinear corrugated structures. Acta Mechanica, 2021, 232, 461-482.	1.1	6
47	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
48	Benchmark Control Problem for Highway Bridge Based on FLC. , 2006, , 1.		5
49	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
50	Nonlinear dynamics and control of helicopter ground resonance. JVC/Journal of Vibration and Control, 2022, 28, 1486-1501.	1.5	5
51	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
52	Developments in Structural Optimization and Applications to Intelligent Structural Vibration Control. , 2007, , 101-121.		5
53	Broadband power generation using an array of bistable harvesters. European Physical Journal: Special Topics, 0, , 1.	1.2	5
54	Active Vibration Control of Thin Plate Using Optimal Dynamic Inversion Technique. IFAC-PapersOnLine, 2016, 49, 326-331.	0.5	4

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55	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
56	Energy harvesting: materials, structures and methods. European Physical Journal: Special Topics, 2022, 231, 1355-1358.	1.2	4
57	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
58	Numerical Study of Camber Morphing in NACA0012 Airfoil. , 2020, , .		3
59	Magnetic actuation of switchable bistable structures: a numerical study. Smart Materials and Structures, 2021, 30, 075025.	1.8	3
60	Static condensation based reduced order modelling of stochastically parametered large ordered systems. Probabilistic Engineering Mechanics, 2021, 66, 103166.	1.3	3
61	Design and conception of a trailing edge morphing wing concept with bistable composite skin. , 2020, , .		3
62	Piezoelectric unimorph and bimorph cantilever configurations: Design guidelines and strain assessment. Smart Materials and Structures, 2022, 31, 035003.	1.8	3
63	Active Vibration Suppression of One-dimensional Nonlinear Structures Using Optimal Dynamic Inversion. , 2007, , .		2
64	Base excited hybrid energy harvesting. , 2013, , .		2
65	Non-Linear Piezoelectric Vibration Energy Harvesting From a Vertical Cantilever Beam With Tip Mass. , 2013, , .		2
66	Control of ground resonance in helicopters using semi active damping. , 2017, , .		2
67	SEREP Integrated Control of Flexible Structures. IFAC-PapersOnLine, 2020, 53, 51-56.	0.5	2
68	Optimal blood glucose regulation using single network adaptive critics. , 2009, , .		1
69	An approximate modeling of 1d transient heat transfer in a gray participating medium. , 2010, , .		1
70	Creation and stabilization of limit cycles in chaotic attractors through closure of orbits. , 2017, , .		1
71	Vibration Energy Harvesting for Monitoring Dynamical Systems. Shock and Vibration, 2018, 2018, 1-2.	0.3	1
72	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

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73	Shape prediction of a composite wing panel under the action of an SMA wire and an MFC bimorph. , 2019, , .		1
74	Random Field Modeling and Analysis of Rotor Bladed Disc Sector Using a Data Driven PCE Based Approach. , 2019, , .		1
75	A Nonlinear Hybrid Energy Harvester. Lecture Notes in Mechanical Engineering, 2020, , 605-614.	0.3	1
76	Optimal distributed actuator design for control of beams. IFAC-PapersOnLine, 2022, 55, 673-678.	0.5	1
77	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
78	Active Vibration Suppression of Beams with Discrete Actuators Using Optimal Dynamic Inversion. , 2006, , .		0
79	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
80	Analysis of magnetopiezoelectric energy harvesters under random excitations: an equivalent linearization approach. , 2011, , .		0
81	Magneto-mechanically coupled energy harvesters. , 2016, , .		0
82	Active vibration control and shape morphing of thin plates using dynamic inversion technique. , 2017, , .		0
83	Optimal Placement and Shape Morphing Of Thin Plates Using Dynamic Inversion Design. IFAC-PapersOnLine, 2018, 51, 72-77.	0.5	0
84	Stabilization of limit cycles in the Lorenz attractor through the orbit closure method. , 2018, , .		0
85	Theoretical modeling of a 2D nano-energy harvester. , 2018, , .		0
86	Semi-Active Control of Stay Cable Vibrations Using Magnetorheological Damper. , 2018, , .		0
87	Analysis of Tristable Energy Harvesters Under Random Excitations. Lecture Notes in Mechanical Engineering, 2020, , 517-528.	0.3	0
88	Nonlinear Structural Control Using Magnetorheological Damper. , 0, , 300-332.		0
89	Nonlinear Structural Control Using Magnetorheological Damper. , 0, , 211-244.		0
90	Analysis of Stepped Beam Using Reduced Order Models. Lecture Notes in Mechanical Engineering, 2021, , 21-33.	0.3	0

#	ARTICLE	IF	CITATIONS
91	Design of a Nonlinear Energy Harvesting Dynamic Vibration Absorber. Lecture Notes in Mechanical Engineering, 2021, , 563-571.	0.3	0
92	Dynamics of Bi-stable Energy Harvesters with Delayed Feedback Control. IFAC-PapersOnLine, 2022, 55, 411-416.	0.5	0