

Farid Ullah Khan

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,269
citations

361413

20
h-index

377865

34
g-index

51
all docs

51
docs citations

51
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid vibration and wind energy harvesting using combined piezoelectric and electromagnetic conversion for bridge health monitoring applications. <i>Energy Conversion and Management</i> , 2018, 172, 611-618.	9.2	167
2	State-of-the-art in vibration-based electrostatic energy harvesting. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 103001.	2.6	145
3	Vibration-based piezoelectric, electromagnetic, and hybrid energy harvesters for microsystems applications: A contributed review. <i>International Journal of Energy Research</i> , 2021, 45, 65-102.	4.5	88
4	Copper foil-type vibration-based electromagnetic energy harvester. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 125006.	2.6	70
5	State of the art in acoustic energy harvesting. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 023001.	2.6	66
6	Nonlinear behaviour of membrane type electromagnetic energy harvester under harmonic and random vibrations. <i>Microsystem Technologies</i> , 2014, 20, 1323-1335.	2.0	59
7	Review of non-resonant vibration based energy harvesters for wireless sensor nodes. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	2.0	44
8	Review of Energy Harvesters Utilizing Bridge Vibrations. <i>Shock and Vibration</i> , 2016, 2016, 1-21.	0.6	41
9	Hybrid acoustic energy harvesting using combined electromagnetic and piezoelectric conversion. <i>Review of Scientific Instruments</i> , 2016, 87, 025003.	1.3	41
10	Review of vibration-based electromagnetic-piezoelectric hybrid energy harvesters. <i>International Journal of Energy Research</i> , 2021, 45, 5058-5097.	4.5	37
11	Electromagnetic Bridge Energy Harvester Utilizing Bridge's Vibrations and Ambient Wind for Wireless Sensor Node Application. <i>Journal of Sensors</i> , 2018, 2018, 1-18.	1.1	36
12	Multimodal Hybrid Piezoelectric-Electromagnetic Insole Energy Harvester Using PVDF Generators. <i>Electronics (Switzerland)</i> , 2020, 9, 635.	3.1	34
13	Piezoelectric type acoustic energy harvester with a tapered Helmholtz cavity for improved performance. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	2.0	32
14	Three degree of freedom acoustic energy harvester using improved Helmholtz resonator. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 143-154.	2.2	25
15	Review of frequency up-conversion vibration energy harvesters using impact and plucking mechanism. <i>International Journal of Energy Research</i> , 2021, 45, 15609-15645.	4.5	25
16	Experimental Study of Direct Laser Deposition of Ti-6Al-4V and Inconel 718 by Using Pulsed Parameters. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	2.1	23
17	Contributed Review: Recent developments in acoustic energy harvesting for autonomous wireless sensor nodes applications. <i>Review of Scientific Instruments</i> , 2016, 87, 021501.	1.3	23
18	Modeling and Simulation of Linear and Nonlinear MEMS Scale Electromagnetic Energy Harvesters for Random Vibration Environments. <i>Scientific World Journal</i> , The, 2014, 2014, 1-15.	2.1	22

#	ARTICLE	IF	CITATIONS
19	A survey of wearable energy harvesting systems. International Journal of Energy Research, 2022, 46, 2277-2329.	4.5	22
20	A piezoelectric based energy harvester for simultaneous energy generation and vibration isolation. International Journal of Energy Research, 2019, 43, 5922-5931.	4.5	20
21	Flow type electromagnetic based energy harvester for pipeline health monitoring system. Energy Conversion and Management, 2019, 200, 112089.	9.2	20
22	Acoustic-Based Electrodynamic Energy Harvester for Wireless Sensor Nodes Application. International Journal of Materials Science and Engineering, 2013, 1, 72-78.	0.1	20
23	Electromagnetic based acoustic energy harvester for low power wireless autonomous sensor applications. Sensor Review, 2018, 38, 298-310.	1.8	18
24	Modeling of linear micro electromagnetic energy harvesters with nonuniform magnetic field for sinusoidal vibrations. Microsystem Technologies, 2015, 21, 683-692.	2.0	16
25	Electromagnetic energy harvester for harvesting acoustic energy. Sadhana - Academy Proceedings in Engineering Sciences, 2016, 41, 397-405.	1.3	16
26	Multi-mode vibration based electromagnetic type micro power generator for structural health monitoring of bridges. Sensors and Actuators A: Physical, 2018, 275, 154-161.	4.1	15
27	Multi-degrees of freedom energy harvesting for broad-band vibration frequency range: A review. Sensors and Actuators A: Physical, 2022, 344, 113690.	4.1	15
28	Energy Harvesting from the Stray Electromagnetic Field around the Electrical Power Cable for Smart Grid Applications. Scientific World Journal, The, 2016, 2016, 1-20.	2.1	13
29	Electromagnetic-based bridge energy harvester using traffic-induced bridge's vibrations and ambient wind. , 2016, , .		13
30	Electromagnetic-based acoustic energy harvester. , 2013, , .		12
31	Vibration-based electromagnetic type energy harvester for bridge monitoring sensor application. , 2014, , .		12
32	A vibration-based electromagnetic and piezoelectric hybrid energy harvester. International Journal of Energy Research, 2020, 44, 6894-6916.	4.5	12
33	Analytical Modeling and Simulation of an Electromagnetic Energy Harvester for Pulsating Fluid Flow in Pipeline. Scientific World Journal, The, 2019, 2019, 1-9.	2.1	8
34	Dual Resonator-Type Electromagnetic Energy Harvester for Structural Health Monitoring of Bridges. Journal of Bridge Engineering, 2021, 26, .	2.9	8
35	IoT Based Health Monitoring System for Electrical Motors. , 2019, , .		7
36	Two degree of freedom vibration based electromagnetic energy harvester for bridge health monitoring system. Journal of Intelligent Material Systems and Structures, 2021, 32, 516-536.	2.5	7

#	ARTICLE	IF	CITATIONS
37	RF Energy Harvesting for Portable Biomedical Devices. , 2019, , .		5
38	Power harvesting footwear based on piezo-electromagnetic hybrid generator for sustainable wearable microelectronics. Journal of King Saud University, Engineering Sciences, 2022, 34, 329-338.	2.0	5
39	Nonlinear multi-mode electromagnetic insole energy harvester for human-powered body monitoring sensors: Design, modeling, and characterization. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 6415-6426.	2.1	5
40	An improved design of Helmholtz resonator for acoustic energy harvesting devices. , 2016, , .		4
41	A Pressure-Based Electromagnetic Energy Harvester for Pipeline Monitoring Applications. Journal of Sensors, 2022, 2022, 1-16.	1.1	4
42	Electrodynamic energy harvester for electrical transformerâ€™s temperature monitoring system. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 2001-2019.	1.3	3
43	A silicone based piezoelectric and electromagnetic hybrid vibration energy harvester. Journal of Micromechanics and Microengineering, 2021, 31, 055003.	2.6	3
44	Experimentation of a Wearable Self-Powered Jacket Harvesting Body Heat for Wearable Device Applications. Journal of Sensors, 2021, 2021, 1-22.	1.1	3
45	Hand gesture recognition for automatic tap system. , 2015, , .		2
46	Solar Based Human Embedded Energy Harvester. , 2021, , .		2
47	Energy harvesting from pulsating fluid flow for pipeline monitoring systems. , 2019, , .		1
48	Vibration-Based Electromagnetic Energy Harvester. , 2010, , .		0
49	Modeling and Simulation of Flow-Based Circular Plate Type Piezoelectric Energy Harvester for Pipeline's Monitoring. , 2019, , .		0