

Dibin Zhu

List of Publications by Year in descending order

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66
papers

1,609
citations

516561

16
h-index

315616

38
g-index

66
all docs

66
docs citations

66
times ranked

1482
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies for increasing the operating frequency range of vibration energy harvesters: a review. <i>Measurement Science and Technology</i> , 2010, 21, 022001.	1.4	483
2	Design and experimental characterization of a tunable vibration-based electromagnetic micro-generator. <i>Sensors and Actuators A: Physical</i> , 2010, 158, 284-293.	2.0	165
3	A Flexible 2.45-GHz Power Harvesting Wristband With Net System Output From ~ 24.3 dBm of RF Power. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 380-395.	2.9	121
4	A credit card sized self powered smart sensor node. <i>Sensors and Actuators A: Physical</i> , 2011, 169, 317-325.	2.0	73
5	Vibration energy harvesting using the Halbach array. <i>Smart Materials and Structures</i> , 2012, 21, 075020.	1.8	70
6	A comparison of power output from linear and nonlinear kinetic energy harvesters using real vibration data. <i>Smart Materials and Structures</i> , 2013, 22, 075022.	1.8	57
7	Increasing output power of electromagnetic vibration energy harvesters using improved Halbach arrays. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 11-19.	2.0	51
8	Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. <i>IEEE Sensors Journal</i> , 2013, 13, 691-700.	2.4	45
9	Energy harvesting study on single and multilayer ferroelectret foams under compressive force. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1360-1368.	1.8	40
10	Kinetic Energy Harvesting. , 2011, , 1-77.		33
11	General model with experimental validation of electrical resonant frequency tuning of electromagnetic vibration energy harvesters. <i>Smart Materials and Structures</i> , 2012, 21, 105039.	1.8	33
12	Improving Output Power of Piezoelectric Energy Harvesters using Multilayer Structures. <i>Procedia Engineering</i> , 2011, 25, 199-202.	1.2	31
13	Magnetic tuning of a kinetic energy harvester using variable reluctance. <i>Sensors and Actuators A: Physical</i> , 2013, 189, 266-275.	2.0	30
14	Temperature dependence of a magnetically levitated electromagnetic vibration energy harvester. <i>Sensors and Actuators A: Physical</i> , 2017, 256, 1-11.	2.0	29
15	A tunable kinetic energy harvester with dynamic over range protection. <i>Smart Materials and Structures</i> , 2010, 19, 115005.	1.8	27
16	Screen-printed piezoelectric shoe-insole energy harvester using an improved flexible PZT-polymer composites. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012108.	0.3	24
17	Vibration Energy Harvesting: Machinery Vibration, Human Movement and Flow Induced Vibration. , 0, , .		22
18	Speed optimisation and reliability analysis of a self-propelled capsule robot moving in an uncertain frictional environment. <i>International Journal of Mechanical Sciences</i> , 2022, 221, 107156.	3.6	18

#	ARTICLE	IF	CITATIONS
19	Multilayer ferroelectret-based energy harvesting insole. Journal of Physics: Conference Series, 2015, 660, 012118.	0.3	16
20	A broadband electromagnetic energy harvester with a coupled bistable structure. Journal of Physics: Conference Series, 2013, 476, 012070.	0.3	14
21	Simulation and experimental studies of a vibro-impact capsule system driven by an external magnetic field. Nonlinear Dynamics, 2022, 109, 1501-1516.	2.7	14
22	An investigation of PDMS structures for optimized ferroelectret performance. Journal of Physics: Conference Series, 2014, 557, 012104.	0.3	13
23	Clamping effect on the piezoelectric responses of screen-printed low temperature PZT/Polymer films on flexible substrates. Smart Materials and Structures, 2015, 24, 115030.	1.8	13
24	A 2.45 GHz rectenna screen-printed on polycotton for on-body RF power transfer and harvesting. , 2015, , .		13
25	An electromechanical model of ferroelectret for energy harvesting. Smart Materials and Structures, 2016, 25, 045010.	1.8	11
26	A novel miniature wind generator for wireless sensing applications. , 2010, , .		10
27	Inductive power transfer in e-textile applications: Reducing the effects of coil misalignment. , 2015, , .		9
28	Optimization a structure of MEMS based PDMS ferroelectret for human body energy harvesting and sensing. Smart Materials and Structures, 2019, 28, 075010.	1.8	9
29	An automated design flow for vibration-based energy harvester systems. , 2009, , .		8
30	A miniature airflow energy harvester from piezoelectric materials. Journal of Physics: Conference Series, 2013, 476, 012057.	0.3	8
31	An electromagnetic in-shoe energy harvester using wave springs. , 2018, , .		8
32	Screen printed piezoelectric films for energy harvesting. Advances in Applied Ceramics, 2013, 112, 79-84.	0.6	7
33	A coupled bistable structure for broadband vibration energy harvesting. , 2013, , .		7
34	Enhancing Output Power of a Cantilever-Based Flapping Airflow Energy Harvester Using External Mechanical Interventions. Sensors, 2019, 19, 1499.	2.1	7
35	Using the Variable Geometry in a Planar Inductor for an Optimised Performance. Electronics (Switzerland), 2021, 10, 721.	1.8	7
36	Extending Wireless Power Transfer Distance using Electromagnetic Halbach Array. , 2021, , .		7

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37	Improving the dielectric and piezoelectric properties of screen-printed Low temperature PZT/polymer composite using cold isostatic pressing. <i>Journal of Physics: Conference Series</i> , 2014, 557, 012083.	0.3	6
38	Vibration Energy Harvesting: Linear, Nonlinear, and Rotational Approaches. <i>Shock and Vibration</i> , 2019, 2019, 1-2.	0.3	6
39	A Hip Implant Energy Harvester. <i>Journal of Physics: Conference Series</i> , 2014, 557, 012038.	0.3	5
40	Near field wireless power transfer using curved relay resonators for extended transfer distance. <i>Journal of Physics: Conference Series</i> , 2015, 660, 012136.	0.3	5
41	Optimization of a PDMS structure for energy harvesting under compressive forces. <i>Journal of Physics: Conference Series</i> , 2015, 660, 012041.	0.3	5
42	Vibration energy harvesting: fabrication, miniaturisation and applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	5
43	Design and experimental investigation of a vibro-impact self-propelled capsule robot with orientation control. , 2022, , .		5
44	Design Optimization of a Magnetically Levitated Electromagnetic Vibration Energy Harvester for Body Motion. <i>Journal of Physics: Conference Series</i> , 2016, 773, 012056.	0.3	4
45	Exploitation of MOSFET-based AC switches in capacitive impedance matching networks in inductive wireless power transfer systems. <i>IET Power Electronics</i> , 2020, 13, 713-719.	1.5	4
46	A novel piezoelectric energy harvester designed for single-supply pre-biasing circuit. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012134.	0.3	3
47	PDMS/PVA composite ferroelectret for improved energy harvesting performance. <i>Journal of Physics: Conference Series</i> , 2016, 773, 012051.	0.3	3
48	Performance of Linear Vibration Energy Harvesters under Broadband Vibrations with Multiple Frequency Peaks. <i>Procedia Engineering</i> , 2012, 47, 5-8.	1.2	2
49	Tunable vibration energy harvester. , 2013, , .		2
50	Packaging strategy for maximizing the performance of a screen printed piezoelectric energy harvester. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012040.	0.3	2
51	Comparisons of Energy Sources for Autonomous In-car Wireless Tags for Asset Tracking and Parking Applications. <i>Procedia Engineering</i> , 2014, 87, 783-786.	1.2	2
52	Screen Printed Free-standing Resonator with Piezoelectric Excitation and Detection on Flexible Substrate. <i>Procedia Engineering</i> , 2014, 87, 947-950.	1.2	2
53	Development of an Automatic Bidirectional Wireless Charging System for Mobile Devices. , 2019, , .		2
54	Comparisons of MOSFET and Relay Switches in Impedance Matching Networks for Wireless Power Transfer. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
55	Extending the horizontal transmission range of an inductive wireless power transfer system using passive elliptical resonators. IET Power Electronics, 2021, 14, 2207-2218.	1.5	2
56	Comparisons of Electromagnetic Transducers for Rotational Energy Harvesting. , 2021, , .		2
57	A Miniature Coupled Bistable Vibration Energy Harvester. Journal of Physics: Conference Series, 2014, 557, 012116.	0.3	1
58	Power Electronics Design of a Solar Powered In-car Wireless Tag for Asset Tracking and Parking Applications. Journal of Physics: Conference Series, 2014, 557, 012044.	0.3	1
59	Development of a low temperature PZT/polymer paste for screen printed flexible electronics applications. , 2014, , .		1
60	Screen-printed free-standing piezoelectric devices using low temperature process. , 2015, , .		1
61	Scaling effects for piezoelectric energy harvesters. Proceedings of SPIE, 2015, , .	0.8	1
62	A miniature piezoelectric energy harvester for air flows. , 2015, , .		1
63	Numerical analysis of an electromagnetic energy harvester driven by multiple magnetic forces under pulse excitation. Smart Materials and Structures, 2018, 27, 115036.	1.8	1
64	Wind Energy Harvesting for Recharging Wireless Sensor Nodes: Brief Review and A Case Study. , 2014, , 1-30.		0
65	Design and optimization of a flapping water flow energy harvester. Journal of Physics: Conference Series, 2018, 1052, 012114.	0.3	0
66	Advance Energy Harvesting Technologies. Energies, 2022, 15, 2366.	1.6	0