

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	Advance Energy Harvesting Technologies. <i>Energies</i> , 2022, 15, 2366.	1.6	0
2	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
3	Simulation and experimental studies of a vibro-impact capsule system driven by an external magnetic field. <i>Nonlinear Dynamics</i> , 2022, 109, 1501-1516.	2.7	14
4	Design and experimental investigation of a vibro-impact self-propelled capsule robot with orientation control. , 2022, , .		5
5	Using the Variable Geometry in a Planar Inductor for an Optimised Performance. <i>Electronics (Switzerland)</i> , 2021, 10, 721.	1.8	7
6	Extending the horizontal transmission range of an inductive wireless power transfer system using passive elliptical resonators. <i>IET Power Electronics</i> , 2021, 14, 2207-2218.	1.5	2
7	Extending Wireless Power Transfer Distance using Electromagnetic Halbach Array. , 2021, , .		7
8	Comparisons of Electromagnetic Transducers for Rotational Energy Harvesting. , 2021, , .		2
9	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
10	Vibration Energy Harvesting: Linear, Nonlinear, and Rotational Approaches. <i>Shock and Vibration</i> , 2019, 2019, 1-2.	0.3	6
11	Optimization a structure of MEMS based PDMS ferroelectret for human body energy harvesting and sensing. <i>Smart Materials and Structures</i> , 2019, 28, 075010.	1.8	9
12	Enhancing Output Power of a Cantilever-Based Flapping Airflow Energy Harvester Using External Mechanical Interventions. <i>Sensors</i> , 2019, 19, 1499.	2.1	7
13	Development of an Automatic Bidirectional Wireless Charging System for Mobile Devices. , 2019, , .		2
14	Comparisons of MOSFET and Relay Switches in Impedance Matching Networks for Wireless Power Transfer. , 2019, , .		2
15	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
16	Design and optimization of a flapping water flow energy harvester. <i>Journal of Physics: Conference Series</i> , 2018, 1052, 012114.	0.3	0
17	Numerical analysis of an electromagnetic energy harvester driven by multiple magnetic forces under pulse excitation. <i>Smart Materials and Structures</i> , 2018, 27, 115036.	1.8	1
18	An electromagnetic in-shoe energy harvester using wave springs. , 2018, , .		8

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19	Temperature dependence of a magnetically levitated electromagnetic vibration energy harvester. <i>Sensors and Actuators A: Physical</i> , 2017, 256, 1-11.	2.0	29
20	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
21	PDMS/PVA composite ferroelectret for improved energy harvesting performance. <i>Journal of Physics: Conference Series</i> , 2016, 773, 012051.	0.3	3
22	An electromechanical model of ferroelectret for energy harvesting. <i>Smart Materials and Structures</i> , 2016, 25, 045010.	1.8	11
23	Screen-printed free-standing piezoelectric devices using low temperature process. , 2015, , .		1
24	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
25	Multilayer ferroelectret-based energy harvesting insole. <i>Journal of Physics: Conference Series</i> , 2015, 660, 012118.	0.3	16
26	Optimization of a PDMS structure for energy harvesting under compressive forces. <i>Journal of Physics: Conference Series</i> , 2015, 660, 012041.	0.3	5
27	Vibration energy harvesting: fabrication, miniaturisation and applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	5
28	Clamping effect on the piezoelectric responses of screen-printed low temperature PZT/Polymer films on flexible substrates. <i>Smart Materials and Structures</i> , 2015, 24, 115030.	1.8	13
29	Scaling effects for piezoelectric energy harvesters. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
30	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
31	A 2.45 GHz rectenna screen-printed on polycotton for on-body RF power transfer and harvesting. , 2015, , .		13
32	Inductive power transfer in e-textile applications: Reducing the effects of coil misalignment. , 2015, , .		9
33	A miniature piezoelectric energy harvester for air flows. , 2015, , .		1
34	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
35	A Miniature Coupled Bistable Vibration Energy Harvester. <i>Journal of Physics: Conference Series</i> , 2014, 557, 012116.	0.3	1
36	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

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37	A Hip Implant Energy Harvester. Journal of Physics: Conference Series, 2014, 557, 012038.	0.3	5
38	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
39	Wind Energy Harvesting for Recharging Wireless Sensor Nodes: Brief Review and A Case Study. , 2014, , 1-30.		0
40	An investigation of PDMS structures for optimized ferroelectret performance. Journal of Physics: Conference Series, 2014, 557, 012104.	0.3	13
41	Development of a low temperature PZT/polymer paste for screen printed flexible electronics applications. , 2014, , .		1
42	Screen Printed Free-standing Resonator with Piezoelectric Excitation and Detection on Flexible Substrate. Procedia Engineering, 2014, 87, 947-950.	1.2	2
43	Increasing output power of electromagnetic vibration energy harvesters using improved Halbach arrays. Sensors and Actuators A: Physical, 2013, 203, 11-19.	2.0	51
44	Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. IEEE Sensors Journal, 2013, 13, 691-700.	2.4	45
45	Magnetic tuning of a kinetic energy harvester using variable reluctance. Sensors and Actuators A: Physical, 2013, 189, 266-275.	2.0	30
46	Tunable vibration energy harvester. , 2013, , .		2
47	A miniature airflow energy harvester from piezoelectric materials. Journal of Physics: Conference Series, 2013, 476, 012057.	0.3	8
48	Screen printed piezoelectric films for energy harvesting. Advances in Applied Ceramics, 2013, 112, 79-84.	0.6	7
49	A coupled bistable structure for broadband vibration energy harvesting. , 2013, , .		7
50	Screen-printed piezoelectric shoe-insole energy harvester using an improved flexible PZT-polymer composites. Journal of Physics: Conference Series, 2013, 476, 012108.	0.3	24
51	A comparison of power output from linear and nonlinear kinetic energy harvesters using real vibration data. Smart Materials and Structures, 2013, 22, 075022.	1.8	57
52	A novel piezoelectric energy harvester designed for single-supply pre-biasing circuit. Journal of Physics: Conference Series, 2013, 476, 012134.	0.3	3
53	A broadband electromagnetic energy harvester with a coupled bistable structure. Journal of Physics: Conference Series, 2013, 476, 012070.	0.3	14
54	Packaging strategy for maximizing the performance of a screen printed piezoelectric energy harvester. Journal of Physics: Conference Series, 2013, 476, 012040.	0.3	2

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55	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
56	Vibration energy harvesting using the Halbach array. <i>Smart Materials and Structures</i> , 2012, 21, 075020.	1.8	70
57	Performance of Linear Vibration Energy Harvesters under Broadband Vibrations with Multiple Frequency Peaks. <i>Procedia Engineering</i> , 2012, 47, 5-8.	1.2	2
58	Kinetic Energy Harvesting. , 2011, , 1-77.		33
59	Improving Output Power of Piezoelectric Energy Harvesters using Multilayer Structures. <i>Procedia Engineering</i> , 2011, 25, 199-202.	1.2	31
60	A credit card sized self powered smart sensor node. <i>Sensors and Actuators A: Physical</i> , 2011, 169, 317-325.	2.0	73
61	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
62	A tunable kinetic energy harvester with dynamic over range protection. <i>Smart Materials and Structures</i> , 2010, 19, 115005.	1.8	27
63	A novel miniature wind generator for wireless sensing applications. , 2010, , .		10
64	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
65	An automated design flow for vibration-based energy harvester systems. , 2009, , .		8
66	Vibration Energy Harvesting: Machinery Vibration, Human Movement and Flow Induced Vibration. , 0, , .		22