

Huakang Xia

List of Publications by Year in descending order

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papers

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26
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26
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26
times ranked

305
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy harvesting performance of a dandelion-like multi-directional piezoelectric vibration energy harvester. <i>Sensors and Actuators A: Physical</i> , 2015, 230, 1-8.	4.1	63
2	Analysis and Simulation of Synchronous Electric Charge Partial Extraction Technique for Efficient Piezoelectric Energy Harvesting. <i>IEEE Sensors Journal</i> , 2018, 18, 6235-6244.	4.7	34
3	A Self-Powered S-SSHI and SECE Hybrid Rectifier for PE Energy Harvesters: Analysis and Experiment. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 1680-1692.	7.9	33
4	A Piezo-Electromagnetic Coupling Multi-Directional Vibration Energy Harvester Based on Frequency Up-Conversion Technique. <i>Micromachines</i> , 2020, 11, 80.	2.9	33
5	Simultaneous Wireless Strain Sensing and Energy Harvesting From Multiple Piezo-Patches for Structural Health Monitoring Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 8235-8243.	7.9	31
6	An Efficient Piezoelectric Energy Harvesting Circuit With Series-SSHI Rectifier and FNOV-MPPT Control Technique. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 7146-7155.	7.9	28
7	Multi-Input SECE Based on Buck Structure for Piezoelectric Energy Harvesting. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 3638-3642.	7.9	28
8	A Sensorless Self-Tuning Resonance System for Piezoelectric Broadband Vibration Energy Harvesting. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 2225-2235.	7.9	25
9	An Efficient Power Management Circuit Based on Quasi Maximum Power Point Tracking With Bidirectional Intermittent Adjustment for Vibration Energy Harvesting. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 9671-9685.	7.9	22
10	Self-Powered Piezoelectric and Thermoelectric Energy Simultaneous Extraction Interface Circuit Based on Double Stack Resonance. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 4567-4577.	7.9	20
11	Self-Powered Multi-Input Serial SSHI Interface Circuit With Arbitrary Phase Difference for Piezoelectric Energy Harvesting. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 9183-9192.	7.9	20
12	Design and analysis of a scalable harvesting interface for multi-source piezoelectric energy harvesting. <i>Sensors and Actuators A: Physical</i> , 2014, 218, 33-40.	4.1	19
13	An ultra-low frequency vibration energy harvester with zigzag piezoelectric spring actuated by rolling ball. <i>Energy Conversion and Management</i> , 2021, 243, 114439.	9.2	19
14	Extensible Multi-Input Synchronous Electronic Charge Extraction Circuit Based on Triple Stack Resonance for Piezoelectric and Thermoelectric Energy Harvesting. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 7156-7166.	7.9	17
15	A Self-Powered Rectifier-Less Synchronized Switch Harvesting on Inductor Interface Circuit for Piezoelectric Energy Harvesting. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 9149-9159.	7.9	14
16	Self-Powered Dual-Inductor MI-PSSHI-VDR Interface Circuit for Multi-PZTs Energy Harvesting. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 3753-3762.	7.9	14
17	A Novel MPPT Technique Based on the Envelope Extraction Implemented With Passive Components for Piezoelectric Energy Harvesting. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 12685-12693.	7.9	12
18	Direct calculation of source impedance to adaptive maximum power point tracking for broadband vibration energy harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 1105-1114.	2.5	11

#	ARTICLE	IF	CITATIONS
19	TSV Based Orthogonal Coils With High Misalignment Tolerance for Inductive Power Transfer in Biomedical Implants. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1832-1836.	3.0	11
20	A self-powered PSSHI and SECE hybrid rectifier for piezoelectric energy harvesting. IEICE Electronics Express, 2020, 17, 20200269-20200269.	0.8	9
21	An Inductive Power Transfer System for Powering Wireless Sensor Nodes in Structural Health Monitoring Applications. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3732-3740.	4.6	7
22	Hysteresis controlled MPPT for piezoelectric energy harvesting. IEICE Electronics Express, 2020, 17, 20190722-20190722.	0.8	5
23	Enhanced piezoelectric energy harvesting power with thermoelectric energy assistance. Journal of Intelligent Material Systems and Structures, 2021, 32, 2260-2272.	2.5	4
24	A Self-Powered Flyback Pulse Resonant Circuit for Combined Piezoelectric and Thermoelectric Energy Harvesting. IEICE Transactions on Electronics, 2021, , .	0.6	2
25	Configurable Hybrid Energy Synchronous Extraction Interface With Serial Stack Resonance for Multi-Source Energy Harvesting. IEEE Journal of Solid-State Circuits, 2023, 58, 451-461.	5.4	2
26	Piezoelectric and Thermoelectric Energy Harvesting System Based On A Self-Triggered Flyback Converter Topology. IEICE Electronics Express, 2022, , .	0.8	1