

Smart Textiles for Electricity Generation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A Piezo Smart Braid Harvester and Damper for Multifunctional Fiber Reinforced Polymer Composites. <i>Energy Technology</i> , 2020, 8, 2000777.	1.8	6
2	Wearable triboelectric nanogenerators for biomechanical energy harvesting. <i>Nano Energy</i> , 2020, 77, 105303.	8.2	206
3	Wireless battery-free wearable sweat sensor powered by human motion. <i>Science Advances</i> , 2020, 6, .	4.7	372
4	Recent progress of triboelectric nanogenerators: From fundamental theory to practical applications. <i>EcoMat</i> , 2020, 2, e12059.	6.8	212
5	Transparent, stretchable and degradable protein electronic skin for biomechanical energy scavenging and wireless sensing. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112567.	5.3	57
6	Smart Insole for Robust Wearable Biomechanical Energy Harvesting in Harsh Environments. <i>ACS Nano</i> , 2020, 14, 14126-14133.	7.3	107
7	A PEDOT:PSS and graphene-clad smart textile-based wearable electronic Joule heater with high thermal stability. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16204-16215.	2.7	95
8	Toward improved trade-off between thermoelectric and mechanical performances in polycarbonate/single-walled carbon nanotube composite films. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	22
9	Stretchable, self-healing, conductive hydrogel fibers for strain sensing and triboelectric energy-harvesting smart textiles. <i>Nano Energy</i> , 2020, 78, 105389.	8.2	186
10	Powering future body sensor network systems: A review of power sources. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112410.	5.3	55
11	Stretchable respiration sensors: Advanced designs and multifunctional platforms for wearable physiological monitoring. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112460.	5.3	129
12	A Single-Material Multi-Source Energy Harvester, Multifunctional Sensor, and Integrated Harvester "Sensor System" Demonstration of Concept. <i>Energy Technology</i> , 2020, 8, 2000461.	1.8	9
13	Leverage Surface Chemistry for High-Performance Triboelectric Nanogenerators. <i>Frontiers in Chemistry</i> , 2020, 8, 577327.	1.8	45
14	Piezoelectric sensor based on graphene-doped PVDF nanofibers for sign language translation. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 1655-1662.	1.5	10
15	Carbon Nanotube Reinforced Strong Carbon Matrix Composites. <i>ACS Nano</i> , 2020, 14, 9282-9319.	7.3	89
16	Soft Sign Language Interpreter on Your Skin. <i>Matter</i> , 2020, 3, 337-338.	5.0	8
17	Engineering Materials at the Nanoscale for Triboelectric Nanogenerators. <i>Cell Reports Physical Science</i> , 2020, 1, 100142.	2.8	130
18	Low-Cost and Nature-Friendly Hierarchical Porous Carbon for Enhanced Capacitive Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 7246-7250.	2.5	22

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20	An elegant coupling: Freeze-casting and versatile polymer composites. <i>Progress in Polymer Science</i> , 2020, 109, 101289.	11.8	69
21	Multimodal Smart Eyewear for Longitudinal Eye Movement Tracking. <i>Matter</i> , 2020, 3, 1275-1293.	5.0	30
22	Recent Advances in Human Motion Excited Energy Harvesting Systems for Wearables. <i>Energy Technology</i> , 2020, 8, 2000533.	1.8	61
23	Stretchable piezoelectric energy harvesters and self-powered sensors for wearable and implantable devices. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112569.	5.3	225
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26	Fluorinated Polyethylene Propylene Ferroelectrets with an Air-Filled Concentric Tunnel Structure: Preparation, Characterization, and Application in Energy Harvesting. <i>Micromachines</i> , 2020, 11, 1072.	1.4	7
27	Network Topology Optimization of Triboelectric Nanogenerators for Effectively Harvesting Ocean Wave Energy. <i>IScience</i> , 2020, 23, 101848.	1.9	29
28	Recent Advances in 2D MXene Integrated Smart-Textile Interfaces for Multifunctional Applications. <i>Chemistry of Materials</i> , 2020, 32, 10296-10320.	3.2	101
29	Hollow IrCo Nanoparticles for High-Performance Overall Water Splitting in an Acidic Medium. <i>ACS Applied Nano Materials</i> , 2020, 3, 11916-11922.	2.4	16
30	A wireless energy transmission enabled wearable active acetone biosensor for non-invasive prediabetes diagnosis. <i>Nano Energy</i> , 2020, 74, 104941.	8.2	193
31	Solution-Processed Submicron Free-Standing, Conformal, Transparent, Breathable Epidermal Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23689-23696.	4.0	35
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38	Manipulating Relative Permittivity for High-Performance Wearable Triboelectric Nanogenerators. <i>Nano Letters</i> , 2020, 20, 6404-6411.	4.5	231
39	Eco-Friendly Synthesis of Self-Supported N-Doped Sb ₂ S ₃ -Carbon Fibers with High Atom Utilization and Zero Discharge for Commercial Full Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 6897-6906.	2.5	51
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49	Advances in triboelectric nanogenerators for biomedical sensing. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112714.	5.3	159
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70	Advances in Nanostructures for High-Performance Triboelectric Nanogenerators. <i>Advanced Materials Technologies</i> , 2021, 6, 2000916.	3.0	94
71	Smart Textiles and Sensorized Garments for Physiological Monitoring: A Review of Available Solutions and Techniques. <i>Sensors</i> , 2021, 21, 814.	2.1	72
72	Triboelectric energy harvesting using conjugated microporous polymer nanoparticles in polyurethane films. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12560-12565.	5.2	12

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74	Interfacial Design and Assembly for Flexible Energy Electrodes with Highly Efficient Energy Harvesting, Conversion, and Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2002969.	10.2	16
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