

Yi Xi

List of Publications by Year in descending order

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32
papers

3,496
citations

279487

23
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414034

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32
all docs

32
docs citations

32
times ranked

3205
citing authors

#	ARTICLE	IF	CITATIONS
1	Eye motion triggered self-powered mechnosensational communication system using triboelectric nanogenerator. <i>Science Advances</i> , 2017, 3, e1700694.	4.7	491
2	Enhancing Performance of Triboelectric Nanogenerator by Filling High Dielectric Nanoparticles into Sponge PDMS Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 736-744.	4.0	474
3	Multifunctional TENG for Blue Energy Scavenging and Self-Powered Wind-Speed Sensor. <i>Advanced Energy Materials</i> , 2017, 7, 1602397.	10.2	273
4	Improving energy conversion efficiency for triboelectric nanogenerator with capacitor structure by maximizing surface charge density. <i>Nanoscale</i> , 2015, 7, 1896-1903.	2.8	222
5	Self-Powered Wireless Sensor Node Enabled by a Duck-Shaped Triboelectric Nanogenerator for Harvesting Water Wave Energy. <i>Advanced Energy Materials</i> , 2017, 7, 1601705.	10.2	198
6	Growth of ZnO nanotube arrays and nanotube based piezoelectric nanogenerators. <i>Journal of Materials Chemistry</i> , 2009, 19, 9260.	6.7	181
7	Airflow-Induced Triboelectric Nanogenerator as a Self-Powered Sensor for Detecting Humidity and Airflow Rate. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17184-17189.	4.0	176
8	High efficient harvesting of underwater ultrasonic wave energy by triboelectric nanogenerator. <i>Nano Energy</i> , 2017, 38, 101-108.	8.2	146
9	A nanogenerator for harvesting airflow energy and light energy. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2079-2087.	5.2	126
10	A Triboelectric Generator Based on Checker-Like Interdigital Electrodes with a Sandwiched PET Thin Film for Harvesting Sliding Energy in All Directions. <i>Advanced Energy Materials</i> , 2015, 5, 1400790.	10.2	116
11	Embedding variable micro-capacitors in polydimethylsiloxane for enhancing output power of triboelectric nanogenerator. <i>Nano Research</i> , 2017, 10, 320-330.	5.8	106
12	A full-packaged rolling triboelectric-electromagnetic hybrid nanogenerator for energy harvesting and building up self-powered wireless systems. <i>Nano Energy</i> , 2019, 56, 300-306.	8.2	96
13	Hybrid nanogenerators based on triboelectrification of a dielectric composite made of lead-free ZnSnO ₃ nanocubes. <i>Nano Energy</i> , 2015, 18, 28-36.	8.2	87
14	Self-Powered Electrochemical Synthesis of Polypyrrole from the Pulsed Output of a Triboelectric Nanogenerator as a Sustainable Energy System. <i>Advanced Functional Materials</i> , 2016, 26, 3542-3548.	7.8	87
15	Polydirectional Microvibration Energy Collection for Self-Powered Multifunctional Systems Based on Hybridized Nanogenerators. <i>ACS Nano</i> , 2020, 14, 3328-3336.	7.3	85
16	Enhancing the Output Charge Density of TENG via Building Longitudinal Paths of Electrostatic Charges in the Contacting Layers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2158-2165.	4.0	83
17	Charge storage in KCu ₇ S ₄ as redox active material for a flexible all-solid-state supercapacitor. <i>Nano Energy</i> , 2016, 19, 363-372.	8.2	77
18	Rolling friction contact-separation mode hybrid triboelectric nanogenerator for mechanical energy harvesting and self-powered multifunctional sensors. <i>Nano Energy</i> , 2018, 47, 539-546.	8.2	77

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19	Harvesting Multidirectional Breeze Energy and Self-Powered Intelligent Fire Detection Systems Based on Triboelectric Nanogenerator and Fluid Dynamic Modeling. <i>Advanced Functional Materials</i> , 2021, 31, 2106527.	7.8	68
20	Ultra-stability high-voltage triboelectric nanogenerator designed by ternary dielectric triboelectrification with partial soft-contact and non-contact mode. <i>Nano Energy</i> , 2021, 90, 106585.	8.2	65
21	Carbon-modified Na ₂ Ti ₃ O ₇ ·2H ₂ O nanobelts as redox active materials for high-performance supercapacitor. <i>Nano Energy</i> , 2016, 28, 115-123.	8.2	51
22	Bio-Derived Natural Materials Based Triboelectric Devices for Self-Powered Ubiquitous Wearable and Implantable Intelligent Devices. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000108.	2.7	42
23	Design and engineering of high-performance triboelectric nanogenerator for ubiquitous unattended devices. <i>EcoMat</i> , 2021, 3, e12093.	6.8	39
24	Ti-Doped Tunnel-Type Na ₄ Mn ₉ O ₁₈ Nanoparticles as Novel Anode Materials for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28900-28908.	4.0	23
25	Triboelectric and Electromagnetic Hybrid Nanogenerator Based on a Crankshaft Piston System as a Multifunctional Energy Harvesting Device. <i>Advanced Materials Technologies</i> , 2019, 4, 1800278.	3.0	23
26	Enhanced output-power of nanogenerator by modifying PDMS film with lateral ZnO nanotubes and Ag nanowires. <i>RSC Advances</i> , 2015, 5, 32566-32571.	1.7	22
27	Enhancing the performance of NaNbO ₃ triboelectric nanogenerators by dielectric modulation and electronegative modification. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 015303.	1.3	20
28	WGUs sensor based on integrated wind-induced generating units for 360° wind energy harvesting and self-powered wind velocity sensing. <i>RSC Advances</i> , 2017, 7, 23208-23214.	1.7	17
29	<i>In situ</i> growth of MnO@Na ₂ Ti ₆ O ₁₃ heterojunction nanowires for high performance supercapacitors. <i>Nanotechnology</i> , 2019, 30, 335401.	1.3	11
30	Based on the stable tunnel structure of C@K ₂ Ti ₆ O ₁₃ hybrid compositions for supercapacitor. <i>Electrochimica Acta</i> , 2017, 252, 498-506.	2.6	7
31	Ag-modified Fe ₂ O ₃ nanoparticles on a carbon cloth as an anode material for high-performance supercapacitors. <i>Nanotechnology</i> , 2020, 31, 125405.	1.3	4
32	Zn induced NiCo composites modified by carbon materials as a battery-type electrode material for high-performance supercapacitors. <i>Nanotechnology</i> , 2021, 32, 495603.	1.3	3