

Kequan Xia

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,167
citations

566801

15
h-index

713013

21
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21
all docs

21
docs citations

21
times ranked

793
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing flexible, smart and self-sustainable supercapacitors for portable/wearable electronics: from conductive polymers. <i>Chemical Society Reviews</i> , 2021, 50, 12702-12743.	18.7	227
2	Painting a high-output triboelectric nanogenerator on paper for harvesting energy from human body motion. <i>Nano Energy</i> , 2018, 50, 571-580.	8.2	168
3	Multiple-Frequency High-Output Triboelectric Nanogenerator Based on a Water Balloon for All-Weather Water Wave Energy Harvesting. <i>Advanced Energy Materials</i> , 2020, 10, 2000426.	10.2	142
4	Milk-based triboelectric nanogenerator on paper for harvesting energy from human body motion. <i>Nano Energy</i> , 2019, 56, 400-410.	8.2	105
5	A triboelectric nanogenerator based on waste tea leaves and packaging bags for powering electronic office supplies and behavior monitoring. <i>Nano Energy</i> , 2019, 60, 61-71.	8.2	92
6	A high-output triboelectric nanogenerator based on nickel-copper bimetallic hydroxide nanowrinkles for self-powered wearable electronics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25995-26003.	5.2	67
7	A pulse controllable voltage source based on triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 77, 105112.	8.2	52
8	Sliding-mode triboelectric nanogenerator based on paper and as a self-powered velocity and force sensor. <i>Applied Materials Today</i> , 2018, 13, 190-197.	2.3	48
9	A high strength triboelectric nanogenerator based on rigid-flexible coupling design for energy storage system. <i>Nano Energy</i> , 2020, 67, 104259.	8.2	42
10	NiTe ₂ -based electrochemical capacitors with high-capacitance AC line filtering for regulating TENGs to steadily drive LEDs. <i>Nano Energy</i> , 2021, 84, 105931.	8.2	35
11	FeSe ₂ /carbon nanotube hybrid lithium-ion battery for harvesting energy from triboelectric nanogenerators. <i>Chemical Communications</i> , 2019, 55, 10960-10963.	2.2	32
12	Self-powered silicon PIN photoelectric detection system based on triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 69, 104461.	8.2	31
13	Transparent and stretchable high-output triboelectric nanogenerator for high-efficiency self-charging energy storage systems. <i>Nano Energy</i> , 2021, 87, 106210.	8.2	28
14	Rolling Spherical Triboelectric Nanogenerators (RS-TENG) under Low-Frequency Ocean Wave Action. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 5.	1.2	25
15	Cost-Effective Copper-Nickel-Based Triboelectric Nanogenerator for Corrosion-Resistant and High-Output Self-Powered Wearable Electronic Systems. <i>Nanomaterials</i> , 2019, 9, 700.	1.9	16
16	A self-supported structure hybrid triboelectric/piezoelectric nanogenerator for bio-mechanical energy harvesting and pressure sensing. <i>Microelectronic Engineering</i> , 2022, 256, 111723.	1.1	13
17	Double-piezoelectric-layer-enhanced triboelectric nanogenerator for bio-mechanical energy harvesting and hot airflow monitoring. <i>Smart Materials and Structures</i> , 2020, 29, 095016.	1.8	11
18	Tunable output performance of triboelectric nanogenerator based on alginate metal complex for sustainable operation of intelligent keyboard sensing system. <i>Nano Energy</i> , 2020, 78, 105263.	8.2	11

#	ARTICLE	IF	CITATIONS
19	Double helix triboelectric nanogenerator for self-powered weight sensors. <i>Sensors and Actuators A: Physical</i> , 2021, 323, 112650.	2.0	9
20	Applying a triboelectric nanogenerator by using facial mask for flexible touch sensor. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 112710.	2.0	8
21	Pinching a triboelectric nanogenerator using soft pottery for powering electronics. <i>Smart Materials and Structures</i> , 2019, 28, 085036.	1.8	5