

Wencong He

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,754
citations

331670

21
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

702
citing authors

#	ARTICLE	IF	CITATIONS
1	An Ultrarobust and High-Performance Rotational Hydrodynamic Triboelectric Nanogenerator Enabled by Automatic Mode Switching and Charge Excitation. <i>Advanced Materials</i> , 2022, 34, e2105882.	21.0	92
2	Achieving Remarkable Charge Density via Self-Polarization of Polar High- κ Material in a Charge-Excitation Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2022, 34, e2109918.	21.0	63
3	Interface Static Friction Enabled Ultra-Durable and High Output Sliding Mode Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	34
4	Constructing high output performance triboelectric nanogenerator via V-shape stack and self-charge excitation. <i>Nano Energy</i> , 2022, 96, 107068.	16.0	22
5	A High-Performance Bidirectional Direct Current TENG by Triboelectrification of Two Dielectrics and Local Corona Discharge. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	43
6	Improving and Quantifying Surface Charge Density via Charge Injection Enabled by Air Breakdown. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	28
7	An Ultrafast Self-Polarization Effect in Barium Titanate Filled Poly(Vinylidene Fluoride) Composite Film Enabled by Self-Charge Excitation Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	28
8	Ultrahigh Performance Triboelectric Nanogenerator Enabled by Charge Transmission in Interfacial Lubrication and Potential Decentralization Design. <i>Research</i> , 2022, 2022, .	5.7	22
9	Capturing Dissipation Charge in Charge Space Accumulation Area for Enhancing Output Performance of Sliding Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	29
10	Ultrahigh Electricity Generation from Low-Frequency Mechanical Energy by Efficient Energy Management. <i>Joule</i> , 2021, 5, 441-455.	24.0	159
11	Miura folding based charge-excitation triboelectric nanogenerator for portable power supply. <i>Nano Research</i> , 2021, 14, 4204-4210.	10.4	34
12	A Non-Encapsulated Polymorphous U-Shaped Triboelectric Nanogenerator for Multiform Hydropower Harvesting. <i>Advanced Materials Technologies</i> , 2021, 6, 2001199.	5.8	12
13	High performance floating self-excited sliding triboelectric nanogenerator for micro mechanical energy harvesting. <i>Nature Communications</i> , 2021, 12, 4689.	12.8	186
14	Harvesting ambient mechanical energy by multiple mode triboelectric nanogenerator with charge excitation for self-powered freight train monitoring. <i>Nano Energy</i> , 2021, 90, 106543.	16.0	35
15	An inverting TENG to realize the AC mode based on the coupling of triboelectrification and air-breakdown. <i>Energy and Environmental Science</i> , 2021, 14, 5395-5405.	30.8	67
16	Magnetic Array Assisted Triboelectric Nanogenerator Sensor for Real-Time Gesture Interaction. <i>Nano-Micro Letters</i> , 2021, 13, 51.	27.0	82
17	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.	16.0	65
18	Giant performance improvement of triboelectric nanogenerator systems achieved by matched inductor design. <i>Energy and Environmental Science</i> , 2021, 14, 6627-6637.	30.8	51

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19	Two voltages in contact-separation triboelectric nanogenerator: From asymmetry to symmetry for maximum output. <i>Nano Energy</i> , 2020, 69, 104452.	16.0	83
20	Boosting output performance of sliding mode triboelectric nanogenerator by charge space-accumulation effect. <i>Nature Communications</i> , 2020, 11, 4277.	12.8	158
21	Quantifying contact status and the air-breakdown model of charge-excitation triboelectric nanogenerators to maximize charge density. <i>Nature Communications</i> , 2020, 11, 1599.	12.8	216
22	Switched-capacitor-convertors based on fractal design for output power management of triboelectric nanogenerator. <i>Nature Communications</i> , 2020, 11, 1883.	12.8	154
23	A Nonencapsulative Pendulum-“Like Paper”-Based Hybrid Nanogenerator for Energy Harvesting. <i>Advanced Energy Materials</i> , 2019, 9, 1901149.	19.5	88