

Zhao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,900
citations

430874

18
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

935
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated charge excitation triboelectric nanogenerator. Nature Communications, 2019, 10, 1426.	12.8	375
2	Quantifying contact status and the air-breakdown model of charge-excitation triboelectric nanogenerators to maximize charge density. Nature Communications, 2020, 11, 1599.	12.8	216
3	High performance floating self-excited sliding triboelectric nanogenerator for micro mechanical energy harvesting. Nature Communications, 2021, 12, 4689.	12.8	186
4	Ultrahigh Electricity Generation from Low-Frequency Mechanical Energy by Efficient Energy Management. Joule, 2021, 5, 441-455.	24.0	159
5	Boosting output performance of sliding mode triboelectric nanogenerator by charge space-accumulation effect. Nature Communications, 2020, 11, 4277.	12.8	158
6	Switched-capacitor-convertors based on fractal design for output power management of triboelectric nanogenerator. Nature Communications, 2020, 11, 1883.	12.8	154
7	An Ultrarobust and High-Performance Rotational Hydrodynamic Triboelectric Nanogenerator Enabled by Automatic Mode Switching and Charge Excitation. Advanced Materials, 2022, 34, e2105882.	21.0	92
8	Advanced designs for output improvement of triboelectric nanogenerator system. Materials Today, 2021, 45, 93-119.	14.2	86
9	Two voltages in contact-separation triboelectric nanogenerator: From asymmetry to symmetry for maximum output. Nano Energy, 2020, 69, 104452.	16.0	83
10	An inverting TENG to realize the AC mode based on the coupling of triboelectrification and air-breakdown. Energy and Environmental Science, 2021, 14, 5395-5405.	30.8	67
11	Achieving Remarkable Charge Density via Self-Polarization of Polar High- κ Material in a Charge-Excitation Triboelectric Nanogenerator. Advanced Materials, 2022, 34, e2109918.	21.0	63
12	Giant performance improvement of triboelectric nanogenerator systems achieved by matched inductor design. Energy and Environmental Science, 2021, 14, 6627-6637.	30.8	51
13	A High-Performance Bidirectional Direct Current TENG by Triboelectrification of Two Dielectrics and Local Corona Discharge. Advanced Energy Materials, 2022, 12, .	19.5	43
14	Miura folding based charge-excitation triboelectric nanogenerator for portable power supply. Nano Research, 2021, 14, 4204-4210.	10.4	34
15	Interface Static Friction Enabled Ultra-Durable and High Output Sliding Mode Triboelectric Nanogenerator. Advanced Functional Materials, 2022, 32, .	14.9	34
16	Optical porous hollow-boxes assembled by SrSO ₄ /TiO ₂ /Pt nanoparticles for high performance of photocatalytic H ₂ evolution. Nano Energy, 2019, 59, 129-137.	16.0	31
17	Constructing high output performance triboelectric nanogenerator via V-shape stack and self-charge excitation. Nano Energy, 2022, 96, 107068.	16.0	22
18	Ultrahigh Performance Triboelectric Nanogenerator Enabled by Charge Transmission in Interfacial Lubrication and Potential Decentralization Design. Research, 2022, 2022, .	5.7	22

#	ARTICLE	IF	CITATIONS
19	Two-dimensional Bi ₂ O ₂ CO ₃ /Bi ₂ O ₃ /Ag ₂ O heterojunction for high performance of photocatalytic activity. Applied Surface Science, 2020, 525, 146613.	6.1	15
20	A Multifunctional Triboelectric Nanogenerator Based on Conveyor Belt Structure for High-Precision Vortex Detection. Advanced Materials Technologies, 2020, 5, 2000377.	5.8	6