

# 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	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- $\kappa$ 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	Ultrahigh Performance Triboelectric Nanogenerator Enabled by Charge Transmission in Interfacial Lubrication and Potential Decentralization Design. <i>Research</i> , 2022, 2022, .	5.7	22
7	Ultrahigh Electricity Generation from Low-Frequency Mechanical Energy by Efficient Energy Management. <i>Joule</i> , 2021, 5, 441-455.	24.0	159
8	Miura folding based charge-excitation triboelectric nanogenerator for portable power supply. <i>Nano Research</i> , 2021, 14, 4204-4210.	10.4	34
9	Advanced designs for output improvement of triboelectric nanogenerator system. <i>Materials Today</i> , 2021, 45, 93-119.	14.2	86
10	High performance floating self-excited sliding triboelectric nanogenerator for micro mechanical energy harvesting. <i>Nature Communications</i> , 2021, 12, 4689.	12.8	186
11	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
12	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
13	Two voltages in contact-separation triboelectric nanogenerator: From asymmetry to symmetry for maximum output. <i>Nano Energy</i> , 2020, 69, 104452.	16.0	83
14	A Multifunctional Triboelectric Nanogenerator Based on Conveyor Belt Structure for High-Precision Vortex Detection. <i>Advanced Materials Technologies</i> , 2020, 5, 2000377.	5.8	6
15	Boosting output performance of sliding mode triboelectric nanogenerator by charge space-accumulation effect. <i>Nature Communications</i> , 2020, 11, 4277.	12.8	158
16	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
17	Two-dimensional Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /Bi <sub>2</sub> O <sub>3</sub> /Ag <sub>2</sub> O heterojunction for high performance of photocatalytic activity. <i>Applied Surface Science</i> , 2020, 525, 146613.	6.1	15
18	Switched-capacitor-convertors based on fractal design for output power management of triboelectric nanogenerator. <i>Nature Communications</i> , 2020, 11, 1883.	12.8	154

#	ARTICLE	IF	CITATIONS
19	Integrated charge excitation triboelectric nanogenerator. Nature Communications, 2019, 10, 1426.	12.8	375
20	Optical porous hollow-boxes assembled by SrSO <sub>4</sub> /TiO <sub>2</sub> /Pt nanoparticles for high performance of photocatalytic H <sub>2</sub> evolution. Nano Energy, 2019, 59, 129-137.	16.0	31