Wencong He

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10038345/publications.pdf

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23	1,754	331670 21	610901 24
papers	citations	h-index	g-index

24	24	24	702
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	High performance floating self-excited sliding triboelectric nanogenerator for micro mechanical energy harvesting. Nature Communications, 2021, 12, 4689.	12.8	186
3	Ultrahigh Electricity Generation from Low-Frequency Mechanical Energy by Efficient Energy Management. Joule, 2021, 5, 441-455.	24.0	159
4	Boosting output performance of sliding mode triboelectric nanogenerator by charge space-accumulation effect. Nature Communications, 2020, 11, 4277.	12.8	158
5	Switched-capacitor-convertors based on fractal design for output power management of triboelectric nanogenerator. Nature Communications, 2020, 11, 1883.	12.8	154
6	An Ultrarobust and Highâ€Performance Rotational Hydrodynamic Triboelectric Nanogenerator Enabled by Automatic Mode Switching and Charge Excitation. Advanced Materials, 2022, 34, e2105882.	21.0	92
7	A Nonencapsulative Pendulumâ€Like Paperâ€“Based Hybrid Nanogenerator for Energy Harvesting. Advanced Energy Materials, 2019, 9, 1901149.	19.5	88
8	Two voltages in contact-separation triboelectric nanogenerator: From asymmetry to symmetry for maximum output. Nano Energy, 2020, 69, 104452.	16.0	83
9	Magnetic Array Assisted Triboelectric Nanogenerator Sensor for Real-Time Gesture Interaction. Nano-Micro Letters, 2021, 13, 51.	27.0	82
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	Ultra-stability high-voltage triboelectric nanogenerator designed by ternary dielectric triboelectrification with partial soft-contact and non-contact mode. Nano Energy, 2021, 90, 106585.	16.0	65
12	Achieving Remarkable Charge Density via Selfâ€Polarization of Polar Highâ€k Material in a Chargeâ€Excitation Triboelectric Nanogenerator. Advanced Materials, 2022, 34, e2109918.	21.0	63
13	Giant performance improvement of triboelectric nanogenerator systems achieved by matched inductor design. Energy and Environmental Science, 2021, 14, 6627-6637.	30.8	51
14	A Highâ€Performance Bidirectional Direct Current TENG by Triboelectrification of Two Dielectrics and Local Corona Discharge. Advanced Energy Materials, 2022, 12, .	19.5	43
15	Harvesting ambient mechanical energy by multiple mode triboelectric nanogenerator with charge excitation for self-powered freight train monitoring. Nano Energy, 2021, 90, 106543.	16.0	35
16	Miura folding based charge-excitation triboelectric nanogenerator for portable power supply. Nano Research, 2021, 14, 4204-4210.	10.4	34
17	Interface Static Friction Enabled Ultraâ€Durable and High Output Sliding Mode Triboelectric Nanogenerator. Advanced Functional Materials, 2022, 32, .	14.9	34
18	Capturing Dissipation Charge in Charge Space Accumulation Area for Enhancing Output Performance of Sliding Triboelectric Nanogenerator. Advanced Energy Materials, 2022, 12, .	19.5	29

#	Article	IF	Citations
19	Improving and Quantifying Surface Charge Density via Charge Injection Enabled by Air Breakdown. Advanced Functional Materials, 2022, 32, .	14.9	28
20	An Ultrafast Selfâ€Polarization Effect in Barium Titanate Filled Poly(Vinylidene Fluoride) Composite Film Enabled by Selfâ€Charge Excitation Triboelectric Nanogenerator. Advanced Functional Materials, 2022, 32, .	14.9	28
21	Constructing high output performance triboelectric nanogenerator via V-shape stack and self-charge excitation. Nano Energy, 2022, 96, 107068.	16.0	22
22	Ultrahigh Performance Triboelectric Nanogenerator Enabled by Charge Transmission in Interfacial Lubrication and Potential Decentralization Design. Research, 2022, 2022, .	5.7	22
23	A Nonâ€Encapsulated Polymorphous Uâ€Shaped Triboelectric Nanogenerator for Multiform Hydropower Harvesting. Advanced Materials Technologies, 2021, 6, 2001199.	5.8	12