

Li Zheng

List of Publications by Year in descending order

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27
papers

2,020
citations

236833

25
h-index

526166

27
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27
docs citations

27
times ranked

2279
citing authors

#	ARTICLE	IF	CITATIONS
1	Anti-freezing and stretchable triboelectric nanogenerator based on liquid electrode for biomechanical sensing in extreme environment. Nano Energy, 2022, 96, 107067.	8.2	30
2	Indoor air dust removal system based on high-voltage direct current triboelectric nanogenerator. Nano Energy, 2022, 97, 107183.	8.2	31
3	Self-powered wind sensor based on triboelectric nanogenerator for detecting breeze vibration on electric transmission lines. Nano Energy, 2022, 99, 107412.	8.2	33
4	Self-driven real-time angle vector sensor as security dialer based on bi-directional backstop triboelectric nanogenerator. Nano Energy, 2022, 99, 107430.	8.2	10
5	Refreshable Braille Display System Based on Triboelectric Nanogenerator and Dielectric Elastomer. Advanced Functional Materials, 2021, 31, 2006612.	7.8	96
6	Multifunctional Coaxial Energy Fiber toward Energy Harvesting, Storage, and Utilization. ACS Nano, 2021, 15, 1597-1607.	7.3	107
7	Studying of contact electrification and electron transfer at liquid-liquid interface. Nano Energy, 2021, 87, 106191.	8.2	35
8	Eco-friendly and recyclable all cellulose triboelectric nanogenerator and self-powered interactive interface. Nano Energy, 2021, 89, 106354.	8.2	84
9	Triboelectric nanogenerator based self-powered sensor with a turnable sector structure for monitoring driving behavior. Nano Energy, 2021, 89, 106352.	8.2	33
10	Nestable arched triboelectric nanogenerator for large deflection biomechanical sensing and energy harvesting. Nano Energy, 2020, 69, 104417.	8.2	47
11	Stretchable, transparent triboelectric nanogenerator as a highly sensitive self-powered sensor for driver fatigue and distraction monitoring. Nano Energy, 2020, 78, 105359.	8.2	66
12	A flexible self-arched biosensor based on combination of piezoelectric and triboelectric effects. Applied Materials Today, 2020, 20, 100699.	2.3	45
13	Dual-Stimulus Smart Actuator and Robot Hand Based on a Vapor-Responsive PDMS Film and Triboelectric Nanogenerator. ACS Applied Materials & Interfaces, 2019, 11, 42504-42511.	4.0	31
14	Regulating the output performance of triboelectric nanogenerator by using P(VDF-TrFE) Langmuir monolayers. Nano Energy, 2019, 66, 104090.	8.2	34
15	Self-driven photodetection based on impedance matching effect between a triboelectric nanogenerator and a MoS2 nanosheets photodetector. Nano Energy, 2019, 59, 492-499.	8.2	50
16	Inflammation-free and gas-permeable on-skin triboelectric nanogenerator using soluble nanofibers. Nano Energy, 2018, 51, 260-269.	8.2	46
17	Toward self-powered photodetection enabled by triboelectric nanogenerators. Journal of Materials Chemistry C, 2018, 6, 11893-11902.	2.7	45
18	Self-powered modulation of elastomeric optical grating by using triboelectric nanogenerator. Nano Energy, 2017, 38, 91-100.	8.2	80

#	ARTICLE	IF	CITATIONS
19	Self-Powered Electrostatic Actuation Systems for Manipulating the Movement of both Microfluid and Solid Objects by Using Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2017, 27, 1606408.	7.8	90
20	A Streaming Potential/Current-Based Microfluidic Direct Current Generator for Self-Powered Nanosystems. <i>Advanced Materials</i> , 2015, 27, 6482-6487.	11.1	104
21	A Flexible Fiber-Based Supercapacitor-Triboelectric Nanogenerator Power System for Wearable Electronics. <i>Advanced Materials</i> , 2015, 27, 4830-4836.	11.1	322
22	A Hybridized Power Panel to Simultaneously Generate Electricity from Sunlight, Raindrops, and Wind around the Clock. <i>Advanced Energy Materials</i> , 2015, 5, 1501152.	10.2	174
23	Influence of external electric field on piezotronic effect in ZnO nanowires. <i>Nano Research</i> , 2015, 8, 2390-2399.	5.8	33
24	Automatic Mode Transition Enabled Robust Triboelectric Nanogenerators. <i>ACS Nano</i> , 2015, 9, 12334-12343.	7.3	111
25	Controlling single-photon transport properties with asymmetrical waveguide-whispering-gallery resonator couplings. <i>Journal of Modern Optics</i> , 2015, 62, 32-38.	0.6	2
26	Multilayered-Electrode-Based Triboelectric Nanogenerators with Managed Output Voltage and Multifold Enhanced Charge Transport. <i>Advanced Energy Materials</i> , 2015, 5, 1401452.	10.2	56
27	Silicon-based hybrid cell for harvesting solar energy and raindrop electrostatic energy. <i>Nano Energy</i> , 2014, 9, 291-300.	8.2	225