Jiajia Shao

List of Publications by Year
in descending order

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43	2,889	178989	263525
papers	citations	28	42
		h-index	g-index

44	44	44	3393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Momentum Transfer in Triboelectric Nanogenerators. Advanced Physics Research, 2024, 3, .	0.8	0
2	Theoretical modeling of contact-separation mode triboelectric nanogenerators from initial charge distribution. Energy and Environmental Science, 2024, 17, 2228-2247.	32.2	4
3	A generalized model for tribovoltaic nanogenerator. Applied Physics Reviews, 2024, 11, .	11.7	1
4	A Selfâ€Powered Early Warning Glove with Integrated Elasticâ€Arched Triboelectric Nanogenerator and Flexible Printed Circuit for Realâ€Time Safety Protection. Advanced Materials Technologies, 2022, 7, 2100787.	6.2	19
5	Theoretical model and optimal output of a cylindrical triboelectric nanogenerator. Nano Energy, 2022, 92, 106762.	16.5	25
6	Energy Optimization of a Mirrorâ€Symmetric Spherical Triboelectric Nanogenerator. Advanced Functional Materials, 2022, 32, .	16.5	10
7	Three-dimensional mathematical modelling and dynamic analysis of freestanding triboelectric nanogenerators. Journal Physics D: Applied Physics, 2022, 55, 345501.	2.9	13
8	Maxwell’s equations for a mechano-driven varying-speed motion media system under slow motion and nonrelativistic approximations. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2022, 52, 1198-1211.	0.6	7
9	Modeling and optimization of a rotational symmetric spherical triboelectric generator. Nano Energy, 2022, 100, 107491.	16.5	7
10	Theory and shape optimization of acoustic driven triboelectric nanogenerators. Materials Today Physics, 2022, 27, 100784.	6.3	5
11	Investigation on energy efficiency of rolling triboelectric nanogenerator using cylinder-cylindrical shell dynamic model. Nano Energy, 2021, 80, 105583.	16.5	15
12	Designing Rules and Optimization of Triboelectric Nanogenerator Arrays. Advanced Energy Materials, 2021, 11, 2100065.	22.2	43
13	High-Electrification Performance and Mechanism of a Waterâ€“Solid Mode Triboelectric Nanogenerator. ACS Nano, 2021, 15, 8706-8714.	15.3	48
14	2D Materials as Effective Cantilever Piezoelectric Nano Energy Harvesters. ACS Energy Letters, 2021, 6, 2313-2319.	18.4	28
15	Self-Powered Tactile Sensor with Learning and Memory. ACS Nano, 2020, 14, 1390-1398.	15.3	113
16	Electron Transfer as a Liquid Droplet Contacting a Polymer Surface. ACS Nano, 2020, 14, 17565-17573.	15.3	180
17	Theoretical modeling of triboelectric nanogenerators (TENGs). Journal of Applied Physics, 2020, 128, .	2.3	125
18	Theoretical foundations of triboelectric nanogenerators (TENGs). Science China Technological Sciences, 2020, 63, 1087-1109.	4.0	94

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19	A Selfâ€Powered Angle Sensor at Nanoradianâ€Resolution for Robotic Arms and Personalized Medicare. Advanced Materials, 2020, 32, e2001466.	24.3	109
20	Three-dimensional modeling of alternating current triboelectric nanogenerator in the linear sliding mode. Applied Physics Reviews, 2020, 7, .	11.7	49
21	Self-cleaning triboelectric nanogenerator based on TiO2 photocatalysis. Nano Energy, 2020, 70, 104499.	16.5	88
22	Wind-driven self-powered wireless environmental sensors for Internet of Things at long distance. Nano Energy, 2020, 73, 104819.	16.5	63
23	Reliable mechatronic indicator for self-powered liquid sensing toward smart manufacture and safe transportation. Materials Today, 2020, 41, 10-20.	18.1	38
24	The influence of multiple fillers on friction and wear behavior of epoxy composite coatings. Surface and Coatings Technology, 2019, 362, 213-219.	4.9	43
25	Open-book-like triboelectric nanogenerators based on low-frequency rollâ€“swing oscillators for wave energy harvesting. Nanoscale, 2019, 11, 7199-7208.	5.8	83
26	3D mathematical model of contact-separation and single-electrode mode triboelectric nanogenerators. Nano Energy, 2019, 60, 630-640.	16.5	95
27	Quantifying the power output and structural figure-of-merits of triboelectric nanogenerators in a charging system starting from the Maxwell's displacement current. Nano Energy, 2019, 59, 380-389.	16.5	90
28	Long Distance Transport of Microdroplets and Precise Microfluidic Patterning Based on Triboelectric Nanogenerator. Advanced Materials Technologies, 2019, 4, 1800300.	6.2	31
29	Self-Powered Microfluidic Transport System Based on Triboelectric Nanogenerator and Electrowetting Technique. ACS Nano, 2018, 12, 1491-1499.	15.3	168
30	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. Nano Energy, 2018, 45, 380-389.	16.5	189
31	Motion behavior of water droplets driven by triboelectric nanogenerator. Applied Physics Letters, 2018, 112, .	3.2	28
32	Studying about applied force and the output performance of sliding-mode triboelectric nanogenerators. Nano Energy, 2018, 48, 292-300.	16.5	64
33	Harshâ€Environmentalâ€Resistant Triboelectric Nanogenerator and Its Applications in Autodrive Safety Warning. Advanced Energy Materials, 2018, 8, 1801898.	22.2	89
34	Structural figure-of-merits of triboelectric nanogenerators at powering loads. Nano Energy, 2018, 51, 688-697.	16.5	63
35	Fully Elastic and Metalâ€Free Tactile Sensors for Detecting both Normal and Tangential Forces Based on Triboelectric Nanogenerators. Advanced Functional Materials, 2018, 28, 1802989.	16.5	135
36	Onâ€Skin Triboelectric Nanogenerator and Selfâ€Powered Sensor with Ultrathin Thickness and High Stretchability. Small, 2017, 13, 1702929.	11.2	110

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37	Enhanced Triboelectric Nanogenerators Based on MoS₂ Monolayer Nanocomposites Acting as Electron-Acceptor Layers. ACS Nano, 2017, 11, 8356-8363.	15.3	221
38	Facile synthesis of porous Mn2O3 nanocubics for high-rate supercapacitors. Electrochimica Acta, 2015, 157, 108-114.	5.4	104
39	Mechanism analysis of the capacitance contributions and ultralong cycling-stability of the isomorphous MnO₂@MnO₂ core/shell nanostructures for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 6168-6176.	10.5	149
40	Urchin-like MnO2 capped ZnO nanorods as high-rate and high-stability pseudocapacitor electrodes. Electrochimica Acta, 2015, 186, 1-6.	5.4	25
41	Magnetic-field-assisted hydrothermal synthesis of 2 Ã— 2 tunnels of MnO₂ nanostructures with enhanced supercapacitor performance. CrystEngComm, 2014, 16, 9987-9991.	2.4	28
42	Effects of secondary magnetic field on the properties of Al-doped ZnO films prepared by RF magnetron sputtering. Ceramics International, 2014, 40, 14347-14353.	4.9	3
43	A One-Step Electrochemical Method for the Production of TiO2â^'xNxNanotubes. Journal of the Electrochemical Society, 2013, 160, H335-H337.	2.9	5