

# Jiajia Shao

## List of Publications by Year in descending order

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41  
papers

2,598  
citations

201575

27  
h-index

276775

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g-index

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41  
docs citations

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times ranked

2429  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Self-Powered Early Warning Glove with Integrated Elastic-Arched Triboelectric Nanogenerator and Flexible Printed Circuit for Real-Time Safety Protection. <i>Advanced Materials Technologies</i> , 2022, 7, 2100787.	3.0	17
2	Theoretical model and optimal output of a cylindrical triboelectric nanogenerator. <i>Nano Energy</i> , 2022, 92, 106762.	8.2	19
3	Energy Optimization of a Mirror-Symmetric Spherical Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	9
4	Three-dimensional mathematical modelling and dynamic analysis of freestanding triboelectric nanogenerators. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 345501.	1.3	11
5	Bioinspired soft electroreceptors for artificial precontact somatosensation. <i>Science Advances</i> , 2022, 8, .	4.7	56
6	Maxwell's equations for a mechano-driven varying-speed motion media system under slow motion and nonrelativistic approximations. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2022, 52, 1198-1211.	0.3	7
7	Modeling and optimization of a rotational symmetric spherical triboelectric generator. <i>Nano Energy</i> , 2022, 100, 107491.	8.2	7
8	Theory and shape optimization of acoustic driven triboelectric nanogenerators. <i>Materials Today Physics</i> , 2022, 27, 100784.	2.9	4
9	Investigation on energy efficiency of rolling triboelectric nanogenerator using cylinder-cylindrical shell dynamic model. <i>Nano Energy</i> , 2021, 80, 105583.	8.2	14
10	Designing Rules and Optimization of Triboelectric Nanogenerator Arrays. <i>Advanced Energy Materials</i> , 2021, 11, 2100065.	10.2	38
11	High-Electrification Performance and Mechanism of a Water-Solid Mode Triboelectric Nanogenerator. <i>ACS Nano</i> , 2021, 15, 8706-8714.	7.3	43
12	2D Materials as Effective Cantilever Piezoelectric Nano Energy Harvesters. <i>ACS Energy Letters</i> , 2021, 6, 2313-2319.	8.8	20
13	Self-Powered Tactile Sensor with Learning and Memory. <i>ACS Nano</i> , 2020, 14, 1390-1398.	7.3	107
14	Electron Transfer as a Liquid Droplet Contacting a Polymer Surface. <i>ACS Nano</i> , 2020, 14, 17565-17573.	7.3	141
15	Theoretical modeling of triboelectric nanogenerators (TENGs). <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	110
16	Theoretical foundations of triboelectric nanogenerators (TENGs). <i>Science China Technological Sciences</i> , 2020, 63, 1087-1109.	2.0	83
17	A Self-Powered Angle Sensor at Nanoradian-Resolution for Robotic Arms and Personalized Medicare. <i>Advanced Materials</i> , 2020, 32, e2001466.	11.1	93
18	Three-dimensional modeling of alternating current triboelectric nanogenerator in the linear sliding mode. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	45

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19	Self-cleaning triboelectric nanogenerator based on TiO <sub>2</sub> photocatalysis. <i>Nano Energy</i> , 2020, 70, 104499.	8.2	78
20	Wind-driven self-powered wireless environmental sensors for Internet of Things at long distance. <i>Nano Energy</i> , 2020, 73, 104819.	8.2	58
21	Reliable mechatronic indicator for self-powered liquid sensing toward smart manufacture and safe transportation. <i>Materials Today</i> , 2020, 41, 10-20.	8.3	34
22	The influence of multiple fillers on friction and wear behavior of epoxy composite coatings. <i>Surface and Coatings Technology</i> , 2019, 362, 213-219.	2.2	39
23	Open-book-like triboelectric nanogenerators based on low-frequency roll-“swing oscillators for wave energy harvesting. <i>Nanoscale</i> , 2019, 11, 7199-7208.	2.8	78
24	3D mathematical model of contact-separation and single-electrode mode triboelectric nanogenerators. <i>Nano Energy</i> , 2019, 60, 630-640.	8.2	87
25	Quantifying the power output and structural figure-of-merits of triboelectric nanogenerators in a charging system starting from the Maxwell's displacement current. <i>Nano Energy</i> , 2019, 59, 380-389.	8.2	84
26	Long Distance Transport of Microdroplets and Precise Microfluidic Patterning Based on Triboelectric Nanogenerator. <i>Advanced Materials Technologies</i> , 2019, 4, 1800300.	3.0	30
27	Self-Powered Microfluidic Transport System Based on Triboelectric Nanogenerator and Electrowetting Technique. <i>ACS Nano</i> , 2018, 12, 1491-1499.	7.3	159
28	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. <i>Nano Energy</i> , 2018, 45, 380-389.	8.2	178
29	Motion behavior of water droplets driven by triboelectric nanogenerator. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	27
30	Studying about applied force and the output performance of sliding-mode triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 48, 292-300.	8.2	60
31	Harsh-Environmental-Resistant Triboelectric Nanogenerator and Its Applications in Autodrive Safety Warning. <i>Advanced Energy Materials</i> , 2018, 8, 1801898.	10.2	82
32	Structural figure-of-merits of triboelectric nanogenerators at powering loads. <i>Nano Energy</i> , 2018, 51, 688-697.	8.2	59
33	Fully Elastic and Metal-Free Tactile Sensors for Detecting both Normal and Tangential Forces Based on Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2018, 28, 1802989.	7.8	124
34	On-Skin Triboelectric Nanogenerator and Self-Powered Sensor with Ultrathin Thickness and High Stretchability. <i>Small</i> , 2017, 13, 1702929.	5.2	108
35	Enhanced Triboelectric Nanogenerators Based on MoS <sub>2</sub> Monolayer Nanocomposites Acting as Electron-Acceptor Layers. <i>ACS Nano</i> , 2017, 11, 8356-8363.	7.3	196
36	Facile synthesis of porous Mn <sub>2</sub> O <sub>3</sub> nanocubics for high-rate supercapacitors. <i>Electrochimica Acta</i> , 2015, 157, 108-114.	2.6	96

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37	Mechanism analysis of the capacitance contributions and ultralong cycling-stability of the isomorphous MnO <sub>2</sub> @MnO <sub>2</sub> core/shell nanostructures for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6168-6176.	5.2	138
38	Urchin-like MnO <sub>2</sub> capped ZnO nanorods as high-rate and high-stability pseudocapacitor electrodes. <i>Electrochimica Acta</i> , 2015, 186, 1-6.	2.6	24
39	Magnetic-field-assisted hydrothermal synthesis of 2 Å–2 tunnels of MnO <sub>2</sub> nanostructures with enhanced supercapacitor performance. <i>CrystEngComm</i> , 2014, 16, 9987-9991.	1.3	27
40	Effects of secondary magnetic field on the properties of Al-doped ZnO films prepared by RF magnetron sputtering. <i>Ceramics International</i> , 2014, 40, 14347-14353.	2.3	3
41	A One-Step Electrochemical Method for the Production of TiO <sub>2</sub> -xNx Nanotubes. <i>Journal of the Electrochemical Society</i> , 2013, 160, H335-H337.	1.3	5