

Yina Liu

List of Publications by Year in descending order

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36
papers

1,928
citations

279701

23
h-index

377752

34
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all docs

36
docs citations

36
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced artificial synaptic thin-film transistor based on doped potassium ions for neuromorphic computing <i>via</i> third-generation neural network. Journal of Materials Chemistry C, 2022, 10, 3196-3206.	2.7	12
2	Interface Engineering for Efficient Raindrop Solar Cell. ACS Nano, 2022, 16, 5292-5302.	7.3	47
3	Electron trapping & blocking effect enabled by MXene/TiO ₂ intermediate layer for charge regulation of triboelectric nanogenerators. Nano Energy, 2022, 98, 107236.	8.2	36
4	Emerging Optical In-Memory Computing Sensor Synapses Based on Low-Dimensional Nanomaterials for Neuromorphic Networks. Advanced Intelligent Systems, 2022, 4, .	3.3	13
5	Intermediate layer for enhanced triboelectric nanogenerator. Nano Energy, 2021, 79, 105439.	8.2	70
6	Hybrid Triboelectric Nanogenerators: From Energy Complementation to Integration. Research, 2021, 2021, 9143762.	2.8	32
7	Artificial Synaptic Performance with Learning Behavior for Memristor Fabricated with Stacked Solution-Processed Switching Layers. ACS Applied Electronic Materials, 2021, 3, 1288-1300.	2.0	19
8	Ecofriendly Solution-Combustion-Processed Thin-Film Transistors for Synaptic Emulation and Neuromorphic Computing. ACS Applied Materials & Interfaces, 2021, 13, 18961-18973.	4.0	8
9	Long-Term Memory Performance with Learning Behavior of Artificial Synaptic Memristor Based on Stacked Solution-Processed Switching Layers. , 2021, , .		0
10	Abrasion and Fracture Self-Healable Triboelectric Nanogenerator with Ultrahigh Stretchability and Long-Term Durability. Advanced Functional Materials, 2021, 31, 2105380.	7.8	65
11	Self-Powered Gyroscope Angle Sensor Based on Resistive Matching Effect of Triboelectric Nanogenerator. Advanced Materials Technologies, 2021, 6, 2100797.	3.0	9
12	Bio-Inspired Photoelectric Artificial Synapse based on Two-Dimensional Ti ₃ C ₂ T _x MXenes Floating Gate. Advanced Functional Materials, 2021, 31, 2106000.	7.8	59
13	A self-powered hydrogen leakage sensor based on impedance adjustable windmill-like triboelectric nanogenerator. Nano Energy, 2021, 89, 106453.	8.2	28
14	Performance variation of solution-processed memristor induced by different top electrode. Solid-State Electronics, 2021, 186, 108132.	0.8	6
15	All-in-One Self-Powered Human-Machine Interaction System for Wireless Remote Telemetry and Control of Intelligent Cars. Nanomaterials, 2021, 11, 2711.	1.9	16
16	Artificial synaptic behavior and its improvement of RRAM device with stacked solution-processed MXene layers. , 2021, , .		3
17	An Integrated Self-Powered Real-Time Pedometer System with Ultrafast Response and High Accuracy. ACS Applied Materials & Interfaces, 2021, 13, 61789-61798.	4.0	6
18	Hybridized Nanogenerators for Multifunctional Self-Powered Sensing: Principles, Prototypes, and Perspectives. IScience, 2020, 23, 101813.	1.9	37

#	ARTICLE	IF	CITATIONS
19	Advances in Healthcare Electronics Enabled by Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2020, 30, 2004673.	7.8	88
20	Blue Energy Collection toward All-Hours Self-Powered Chemical Energy Conversion. <i>Advanced Energy Materials</i> , 2020, 10, 2001041.	10.2	54
21	Advances of RRAM Devices: Resistive Switching Mechanisms, Materials and Bionic Synaptic Application. <i>Nanomaterials</i> , 2020, 10, 1437.	1.9	157
22	Flexible Self-Powered Real-Time Ultraviolet Photodetector by Coupling Triboelectric and Photoelectric Effects. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19384-19392.	4.0	80
23	Self-Powered Active Spherical Triboelectric Sensor for Fluid Velocity Detection. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 230-235.	1.1	22
24	Hybridized Mechanical and Solar Energy-Driven Self-Powered Hydrogen Production. <i>Nano-Micro Letters</i> , 2020, 12, 88.	14.4	31
25	Spiral Steel Wire-Based Fiber-Shaped Stretchable and Tailorable Triboelectric Nanogenerator for Wearable Power Source and Active Gesture Sensor. <i>Nano-Micro Letters</i> , 2019, 11, 39.	14.4	114
26	Self-powered on-line ion concentration monitor in water transportation driven by triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 62, 442-448.	8.2	63
27	Self-driven photodetection based on impedance matching effect between a triboelectric nanogenerator and a MoS ₂ nanosheets photodetector. <i>Nano Energy</i> , 2019, 59, 492-499.	8.2	50
28	A liquid PEDOT:PSS electrode-based stretchable triboelectric nanogenerator for a portable self-charging power source. <i>Nanoscale</i> , 2019, 11, 7513-7519.	2.8	55
29	Highly efficient self-healable and dual responsive hydrogel-based deformable triboelectric nanogenerators for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13948-13955.	5.2	163
30	Flexible self-charging power units for portable electronics based on folded carbon paper. <i>Nano Research</i> , 2018, 11, 4313-4322.	5.8	78
31	Weakly sharp solutions and finite convergence of algorithms for a variational inequality problem. <i>Optimization</i> , 2018, 67, 329-340.	1.0	3
32	Atmospheric pressure difference driven triboelectric nanogenerator for efficiently harvesting ocean wave energy. <i>Nano Energy</i> , 2018, 54, 156-162.	8.2	65
33	Triboelectric-EM Hybrid Generator for Harvesting Blue Energy. <i>Nano-Micro Letters</i> , 2018, 10, 54.	14.4	92
34	A Wrinkled PEDOT:PSS Film Based Stretchable and Transparent Triboelectric Nanogenerator for Wearable Energy Harvesters and Active Motion Sensors. <i>Advanced Functional Materials</i> , 2018, 28, 1803684.	7.8	286
35	Toward self-powered photodetection enabled by triboelectric nanogenerators. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11893-11902.	2.7	45
36	Characterization of weakly sharp solutions of a variational inequality by its primal gap function. <i>Optimization Letters</i> , 2016, 10, 563-576.	0.9	16