

Xiao-Sheng Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

2,270
citations

16
h-index

47
g-index

51
ext. papers

2,759
ext. citations

8.8
avg, IF

5.22
L-index

#	Paper	IF	Citations
42	Electron-Ion Coupling Mechanism to Construct Stable Output Performance Nanogenerator. <i>Research</i> , 2021 , 2021, 9817062	7.8	2
41	An Artificial Electrical-Chemical Mixed Synapse Based on Ion-Gated MoS Nanosheets for Real-Time Facilitation Index Tuning. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15755-15760	9.5	1
40	Self-powered trajectory-tracking microsystem based on electrode-miniaturized triboelectric nanogenerator. <i>Nano Energy</i> , 2021 , 82, 105730	17.1	12
39	Flexible Hybrid Photo-Thermoelectric Generator Based on Single Thermoelectric Effect for Simultaneously Harvesting Thermal and Radiation Energies. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21401-21410	9.5	5
38	Super-stretchable multi-sensing triboelectric nanogenerator based on liquid conductive composite. <i>Nano Energy</i> , 2021 , 83, 105823	17.1	16
37	Recent progress in silk fibroin-based flexible electronics. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 35	7.7	25
36	Textile-Based Triboelectric Nanogenerators for Wearable Self-Powered Microsystems. <i>Micromachines</i> , 2021 , 12,	3.3	9
35	Hybrid nanogenerator-based self-powered double-authentication microsystem for smart identification. <i>Nano Energy</i> , 2021 , 86, 106100	17.1	5
34	Flexible nanogenerator based on sponge-shaped piezoelectric composite. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 434002	3	
33	Fully-Differential TPoS Resonators Based on Dual Interdigital Electrodes for Feedthrough Suppression. <i>Micromachines</i> , 2020 , 11,	3.3	2
32	Unidirectional-current triboelectric nanogenerator based on periodical lateral-cantilevers. <i>Nano Energy</i> , 2020 , 74, 104770	17.1	16
31	Single-Layer Triboelectric Nanogenerators Based on Ion-Doped Natural Nanofibrils. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42859-42867	9.5	16
30	Wearable multi-sensing double-chain thermoelectric generator. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 68	7.7	29
29	Dissipation Analysis Methods and Q-Enhancement Strategies in Piezoelectric MEMS Laterally Vibrating Resonators: A Review. <i>Sensors</i> , 2020 , 20,	3.8	12
28	Spider Web-Like Phononic Crystals for Piezoelectric MEMS Resonators to Reduce Acoustic Energy Dissipation. <i>Micromachines</i> , 2019 , 10,	3.3	7
27	Quality factor improvement of piezoelectric MEMS resonator by the conjunction of frame structure and phononic crystals. <i>Sensors and Actuators A: Physical</i> , 2019 , 297, 111541	3.9	6
26	Self-powered smart active RFID tag integrated with wearable hybrid nanogenerator. <i>Nano Energy</i> , 2019 , 64, 103911	17.1	43

25	Printed silk-fibroin-based triboelectric nanogenerators for multi-functional wearable sensing. <i>Nano Energy</i> , 2019 , 66, 104123	17.1	65
24	All-in-one self-powered flexible microsystems based on triboelectric nanogenerators. <i>Nano Energy</i> , 2018 , 47, 410-426	17.1	185
23	All-fiber hybrid piezoelectric-enhanced triboelectric nanogenerator for wearable gesture monitoring. <i>Nano Energy</i> , 2018 , 48, 152-160	17.1	231
22	High-Q Multiple-Frequency Ring-Shaped Thin-Film Piezoelectric-on-Silicon Resonators 2018 ,		1
21	Suspended Frame Structure with Phononic Crystals for Anchor Loss Reduction of MEMS Resonator 2018 ,		2
20	Pencil-like triboelectric nanogenerator on paper for autonomous power MEMS applications. <i>Nano Energy</i> , 2017 , 33, 393-401	17.1	95
19	Flexible fabric-based wearable solid-state supercapacitor 2017 ,		4
18	A silk-fibroin-based transparent triboelectric generator suitable for autonomous sensor network. <i>Nano Energy</i> , 2016 , 20, 37-47	17.1	96
17	Micro/Nano Integrated Fabrication Technology and Its Applications in Microenergy Harvesting. <i>Springer Theses</i> , 2016 ,	0.1	4
16	Flexible Triboelectric Nanogenerators: Principle and Fabrication. <i>Springer Theses</i> , 2016 , 75-91	0.1	
15	Flexible Triboelectric Nanogenerators: Enhancement and Applications. <i>Springer Theses</i> , 2016 , 93-117	0.1	2
14	Fabrication and characterization of the functional parylene-C film with micro/nano hierarchical structures. <i>Microelectronic Engineering</i> , 2015 , 141, 72-80	2.5	5
13	High performance triboelectric nanogenerators based on large-scale mass-fabrication technologies. <i>Nano Energy</i> , 2015 , 11, 304-322	17.1	149
12	A flexible and implantable piezoelectric generator harvesting energy from the pulsation of ascending aorta: in vitro and in vivo studies. <i>Nano Energy</i> , 2015 , 12, 296-304	17.1	111
11	Magnetic-assisted triboelectric nanogenerators as self-powered visualized omnidirectional tilt sensing system. <i>Scientific Reports</i> , 2014 , 4, 4811	4.9	82
10	Switchable wetting and flexible SiC thin film with nanostructures for microfluidic surface-enhanced Raman scattering sensors. <i>Sensors and Actuators A: Physical</i> , 2014 , 208, 166-173	3.9	15
9	High-performance triboelectric nanogenerator with enhanced energy density based on single-step fluorocarbon plasma treatment. <i>Nano Energy</i> , 2014 , 4, 123-131	17.1	229
8	3D nanostructure reconstruction based on the SEM imaging principle, and applications. <i>Nanotechnology</i> , 2014 , 25, 185705	3.4	12

7	Note: A cubic electromagnetic harvester that convert vibration energy from all directions. <i>Review of Scientific Instruments</i> , 2014 , 85, 076109	1.7	9
6	An unmovable single-layer triboelectric generator driven by sliding friction. <i>Nano Energy</i> , 2014 , 9, 401-407	16.7	16
5	r-Shaped hybrid nanogenerator with enhanced piezoelectricity. <i>ACS Nano</i> , 2013 , 7, 8554-60	16.7	188
4	Self-cleaning poly(dimethylsiloxane) film with functional micro/nano hierarchical structures. <i>Langmuir</i> , 2013 , 29, 10769-75	4	40
3	Frequency-multiplication high-output triboelectric nanogenerator for sustainably powering biomedical microsystems. <i>Nano Letters</i> , 2013 , 13, 1168-72	11.5	499
2	Tunable wetting behavior of nanostructured poly(dimethylsiloxane) by plasma combination treatments. <i>Applied Physics Letters</i> , 2012 , 101, 221601	3.4	16
1	Silk Fibroin-Based Wearable All-Fiber Multifunctional Sensor for Smart Clothing. <i>Advanced Fiber Materials</i> ,1	10.9	3