

Junwen Zhong

List of Publications by Year in descending order

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67
papers

6,334
citations

109321

35
h-index

138484

58
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68
all docs

68
docs citations

68
times ranked

8130
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber-Based All-Solid-State Flexible Supercapacitors for Self-Powered Systems. ACS Nano, 2012, 6, 9200-9206.	14.6	596
2	A comprehensive review on piezoelectric energy harvesting technology: Materials, mechanisms, and applications. Applied Physics Reviews, 2018, 5, .	11.3	565
3	Fiber-Based Generator for Wearable Electronics and Mobile Medication. ACS Nano, 2014, 8, 6273-6280.	14.6	543
4	High-Strain Sensors Based on ZnO Nanowire/Polystyrene Hybridized Flexible Films. Advanced Materials, 2011, 23, 5440-5444.	21.0	497
5	Paper-Based Supercapacitors for Self-Powered Nanosystems. Angewandte Chemie - International Edition, 2012, 51, 4934-4938.	13.8	364
6	Insect-scale fast moving and ultrarobust soft robot. Science Robotics, 2019, 4, .	17.6	282
7	Finger typing driven triboelectric nanogenerator and its use for instantaneously lighting up LEDs. Nano Energy, 2013, 2, 491-497.	16.0	264
8	A paper-based nanogenerator as a power source and active sensor. Energy and Environmental Science, 2013, 6, 1779.	30.8	218
9	Cellular Polypropylene Piezoelectret for Human Body Energy Harvesting and Health Monitoring. Advanced Functional Materials, 2015, 25, 4788-4794.	14.9	159
10	Stretchable Self-Powered Fiber-Based Strain Sensor. Advanced Functional Materials, 2015, 25, 1798-1803.	14.9	155
11	Human Pulse Diagnosis for Medical Assessments Using a Wearable Piezoelectret Sensing System. Advanced Functional Materials, 2018, 28, 1803413.	14.9	151
12	A Flexible Piezoelectret Actuator/Sensor Patch for Mechanical Human-Machine Interfaces. ACS Nano, 2019, 13, 7107-7116.	14.6	137
13	Laser-Induced Molybdenum Carbide-Graphene Composites for 3D Foldable Paper Electronics. Advanced Materials, 2018, 30, e1800062.	21.0	135
14	Paper-Based Active Tactile Sensor Array. Advanced Materials, 2015, 27, 7130-7136.	21.0	131
15	A nanogenerator for harvesting airflow energy and light energy. Journal of Materials Chemistry A, 2014, 2, 2079-2087.	10.3	126
16	Ultrasensitive cellular fluorocarbon piezoelectret pressure sensor for self-powered human physiological monitoring. Nano Energy, 2017, 32, 42-49.	16.0	123
17	Dual functional transparent film for proximity and pressure sensing. Nano Research, 2014, 7, 1488-1496.	10.4	122
18	Electrospun polyetherimide electret nonwoven for bi-functional smart face mask. Nano Energy, 2017, 34, 562-569.	16.0	119

#	ARTICLE	IF	CITATIONS
19	Bio-Inspired Hybrid Dielectric for Capacitive and Triboelectric Tactile Sensors with High Sensitivity and Ultrawide Linearity Range. <i>Advanced Materials</i> , 2021, 33, e2100859.	21.0	113
20	Surface charge self-recovering electret film for wearable energy conversion in a harsh environment. <i>Energy and Environmental Science</i> , 2016, 9, 3085-3091.	30.8	106
21	Self-Powered Human-Interactive Transparent Nanopaper Systems. <i>ACS Nano</i> , 2015, 9, 7399-7406.	14.6	97
22	Piezoresistive stretchable strain sensors with human machine interface demonstrations. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 46-52.	4.1	96
23	Titanium Disulfide Coated Carbon Nanotube Hybrid Electrodes Enable High Energy Density Symmetric Pseudocapacitors. <i>Advanced Materials</i> , 2018, 30, 1704754.	21.0	92
24	Smart Face Mask Based on an Ultrathin Pressure Sensor for Wireless Monitoring of Breath Conditions. <i>Advanced Materials</i> , 2022, 34, e2107758.	21.0	75
25	Natural Materials Assembled, Biodegradable, and Transparent Paper-Based Electret Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35587-35592.	8.0	74
26	Flexible PET/EVA-based piezoelectret generator for energy harvesting in harsh environments. <i>Nano Energy</i> , 2017, 37, 268-274.	16.0	69
27	Electrostatic footpads enable agile insect-scale soft robots with trajectory control. <i>Science Robotics</i> , 2021, 6, .	17.6	66
28	Cloth-Based Power Shirt for Wearable Energy Harvesting and Clothes Ornamentation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14912-14916.	8.0	63
29	Lead iodide nanosheets for piezoelectric energy conversion and strain sensing. <i>Nano Energy</i> , 2018, 49, 7-13.	16.0	59
30	Theoretical Study of Cellular Piezoelectret Generators. <i>Advanced Functional Materials</i> , 2016, 26, 1964-1974.	14.9	58
31	Sandwiched Composite Fluorocarbon Film for Flexible Electret Generator. <i>Advanced Electronic Materials</i> , 2016, 2, 1500408.	5.1	48
32	Sensitivity-Enhanced Wearable Active Voiceprint Sensor Based on Cellular Polypropylene Piezoelectret. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23716-23722.	8.0	48
33	Molybdenum-carbide-graphene composites for paper-based strain and acoustic pressure sensors. <i>Carbon</i> , 2020, 157, 594-601.	10.3	46
34	Wearable breath monitoring via a hot-film/calorimetric airflow sensing system. <i>Biosensors and Bioelectronics</i> , 2020, 163, 112288.	10.1	37
35	Flexible pillar-base structured piezocomposite with aligned porosity for piezoelectric energy harvesting. <i>Nano Energy</i> , 2021, 88, 106278.	16.0	37
36	Metal-free and non-fluorine paper-based generator. <i>Nano Energy</i> , 2015, 14, 236-244.	16.0	32

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37	Human pulses reveal health conditions by a piezoelectret sensor via the approximate entropy analysis. Nano Energy, 2019, 58, 528-535.	16.0	30
38	Fullerene/cobalt porphyrin charge-transfer cococrystals: Excellent thermal stability and high mobility. Nano Research, 2018, 11, 1917-1927.	10.4	27
39	Moisture-induced autonomous surface potential oscillations for energy harvesting. Nature Communications, 2021, 12, 5287.	12.8	26
40	Output enhanced compact multilayer flexible nanogenerator for self-powered wireless remote system. Journal of Materials Chemistry A, 2017, 5, 12787-12792.	10.3	25
41	Recent advances in nanogenerators-based flexible electronics for electromechanical biomonitoring. Biosensors and Bioelectronics, 2021, 186, 113290.	10.1	23
42	Flexible THV/COC Piezoelectret Nanogenerator for Wide-Range Pressure Sensing. ACS Applied Materials & Interfaces, 2018, 10, 29675-29683.	8.0	21
43	Model, Design, and Testing of an Electret-Based Portable Transmitter for Low-Frequency Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 5305-5314.	5.1	20
44	Untethered triboelectric patch for wearable smart sensing and energy harvesting. Nano Energy, 2022, 100, 107500.	16.0	14
45	PRE-curved PVDF/PI unimorph structures for biomimic soft crawling actuators. , 2018, , .		13
46	Stability and decay of surface electrostatic charges in liquids. Nano Energy, 2021, 81, 105618.	16.0	13
47	High resolution flexible strain sensors for biological signal measurements. , 2017, , .		12
48	A low voltage-powered soft electromechanical stimulation patch for haptics feedback in human-machine interfaces. Biosensors and Bioelectronics, 2021, 193, 113616.	10.1	12
49	Programmable Tactile Feedback Patterns for Cognitive Assistance by Flexible Electret Actuators. Advanced Functional Materials, 2022, 32, .	14.9	11
50	A miniaturized mechanical antenna based on FEP/THV unipolar electrets for extremely low frequency transmission. Microsystems and Nanoengineering, 2022, 8, .	7.0	10
51	Establishment of 3D culture and induction of osteogenic differentiation of pre-osteoblasts using wet-collected aligned scaffolds. Materials Science and Engineering C, 2017, 71, 222-230.	7.3	9
52	3D Printed Flexible Triboelectric Energy Harvesters via Conformal Coating of Parylene AF4. , 2019, , .		7
53	Output optimized electret nanogenerators for self-powered long-distance optical communication systems. Nanoscale, 2017, 9, 18529-18534.	5.6	6
54	Manipulating the Moving Trajectory of Insect-Scale Piezoelectric Soft Robots by Frequency. , 2019, , .		6

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55	Quantitative Analysis of Back-EMF of a Dual-Permanent-Magnet-Excited Machine: Alert to Flux Density Harmonics Which Make a Negative Contribution to Back-EMF. IEEE Access, 2021, 9, 94064-94077.	4.2	6
56	Wearable Airflow Sensor for Nasal Symmetric Evaluation and Respiration Monitoring. , 2019, , .		5
57	Paper Electronics: Laser-Induced Molybdenum Carbide-Graphene Composites for 3D Foldable Paper Electronics (Adv. Mater. 26/2018). Advanced Materials, 2018, 30, 1870192.	21.0	4
58	Smart Face Mask Based on an Ultrathin Pressure Sensor for Wireless Monitoring of Breath Conditions (Adv. Mater. 6/2022). Advanced Materials, 2022, 34, .	21.0	4
59	A Moisture-Resistant Soft Actuator with Low Driving Voltages for Haptic Stimulations in Virtual Games. ACS Applied Materials & Interfaces, 2022, 14, 31257-31266.	8.0	4
60	Synthesis and Photoelectrochemical Property of PbS Quantum Dots Modified WO ₃ Nanoflowers. ECS Transactions, 2013, 50, 41-44.	0.5	3
61	Self-powered pulse sensors with high sensitivity to reveal sinus arrhythmia. , 2018, , .		2
62	Health Monitoring: Human Pulse Diagnosis for Medical Assessments Using a Wearable Piezoelectret Sensing System (Adv. Funct. Mater. 40/2018). Advanced Functional Materials, 2018, 28, 1870292.	14.9	2
63	Robust Power Textile Based on Triboelectrification for Self-Powered Smart Textiles. IEEE Open Journal of Nanotechnology, 2020, 1, 95-99.	2.0	2
64	Monitoring Vital Signs of Respiration and Heart Beat Simultaneously via a Single Flexible Piezoelectret Sensor. , 2019, , .		1
65	Piezoelectret Mechanocatalysts for Direct Water Splitting via Ultrasonication. , 2019, , .		0
66	A Paper-Based Disposable Strain Sensor by Direct Laser Printing. , 2019, , .		0
67	Flexible Electret Generator for Self-Powered Metal Cathodic Protection. , 2019, , .		0