

Jun Zhou

List of Publications by Year in descending order

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papers

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4942

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197
docs citations

197
times ranked

24456
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric Field Effect Transistor and Nanoforce Sensor Based on a Single ZnO Nanowire. Nano Letters, 2006, 6, 2768-2772.	4.5	983
2	Flexible Solid-State Supercapacitors Based on Carbon Nanoparticles/MnO ₂ Nanorods Hybrid Structure. ACS Nano, 2012, 6, 656-661.	7.3	961
3	Hydrogenated ZnO Core-Shell Nanocables for Flexible Supercapacitors and Self-Powered Systems. ACS Nano, 2013, 7, 2617-2626.	7.3	781
4	Water-evaporation-induced electricity with nanostructured carbon materials. Nature Nanotechnology, 2017, 12, 317-321.	15.6	747
5	Flexible Piezotronic Strain Sensor. Nano Letters, 2008, 8, 3035-3040.	4.5	742
6	WO ₃ @Au@MnO ₂ Core-Shell Nanowires on Carbon Fabric for High-Performance Flexible Supercapacitors. Advanced Materials, 2012, 24, 938-944.	11.1	641
7	Fiber-Based All-Solid-State Flexible Supercapacitors for Self-Powered Systems. ACS Nano, 2012, 6, 9200-9206.	7.3	596
8	Polypyrrole-coated paper for flexible solid-state energy storage. Energy and Environmental Science, 2013, 6, 470.	15.6	580
9	Fiber-Based Generator for Wearable Electronics and Mobile Medication. ACS Nano, 2014, 8, 6273-6280.	7.3	543
10	Gigantic enhancement in response and reset time of ZnO UV nanosensor by utilizing Schottky contact and surface functionalization. Applied Physics Letters, 2009, 94, 191103.	1.5	515
11	High-Strain Sensors Based on ZnO Nanowire/Polystyrene Hybridized Flexible Films. Advanced Materials, 2011, 23, 5440-5444.	11.1	497
12	Robust and Low-Cost Flame-Treated Wood for High-Performance Solar Steam Generation. ACS Applied Materials & Interfaces, 2017, 9, 15052-15057.	4.0	463
13	Freestanding Mesoporous VN/CNT Hybrid Electrodes for Flexible All-Solid-State Supercapacitors. Advanced Materials, 2013, 25, 5091-5097.	11.1	420
14	WO ₃ /MoO ₃ Core/Shell Nanowires on Carbon Fabric as an Anode for All-Solid-State Asymmetric Supercapacitors. Advanced Energy Materials, 2012, 2, 1328-1332.	10.2	401
15	Ultrasensitive and highly selective gas sensors using three-dimensional tungsten oxide nanowire networks. Applied Physics Letters, 2006, 88, 203101.	1.5	399
16	Piezoelectric and Semiconducting Coupled Power Generating Process of a Single ZnO Belt/Wire. A Technology for Harvesting Electricity from the Environment. Nano Letters, 2006, 6, 1656-1662.	4.5	384
17	Flexible and cross-linked N-doped carbon nanofiber network for high performance freestanding supercapacitor electrode. Nano Energy, 2015, 15, 66-74.	8.2	384
18	Solar-driven simultaneous steam production and electricity generation from salinity. Energy and Environmental Science, 2017, 10, 1923-1927.	15.6	380

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19	Scalable salt-templated synthesis of two-dimensional transition metal oxides. Nature Communications, 2016, 7, 11296.	5.8	379
20	Paper-based Supercapacitors for Self-powered Nanosystems. Angewandte Chemie - International Edition, 2012, 51, 4934-4938.	7.2	364
21	Salt-Templated Synthesis of 2D Metallic MoN and Other Nitrides. ACS Nano, 2017, 11, 2180-2186.	7.3	359
22	Paper-based solid-state supercapacitors with pencil-drawing graphite/polyaniline networks hybrid electrodes. Nano Energy, 2013, 2, 1071-1078.	8.2	348
23	Supersensitive, Fast-response Nanowire Sensors by Using Schottky Contacts. Advanced Materials, 2010, 22, 3327-3332.	11.1	311
24	Unique elastic N-doped carbon nanofibrous microspheres with hierarchical porosity derived from renewable chitin for high rate supercapacitors. Nano Energy, 2016, 27, 482-491.	8.2	299
25	A Bamboo-Inspired Nanostructure Design for Flexible, Foldable, and Twistable Energy Storage Devices. Nano Letters, 2015, 15, 3899-3906.	4.5	296
26	Thermosensitive crystallization-boosted liquid thermocells for low-grade heat harvesting. Science, 2020, 370, 342-346.	6.0	289
27	All-Printed Porous Carbon Film for Electricity Generation from Evaporation-driven Water Flow. Advanced Functional Materials, 2017, 27, 1700551.	7.8	284
28	Piezoelectric-Potential-Controlled Polarity-Reversible Schottky Diodes and Switches of ZnO Wires. Nano Letters, 2008, 8, 3973-3977.	4.5	279
29	A Low-cost, Self-standing NiCo ₂ O ₄ @CNT/CNT Multilayer Electrode for Flexible Asymmetric Solid-state Supercapacitors. Advanced Functional Materials, 2017, 27, 1702160.	7.8	277
30	Finger typing driven triboelectric nanogenerator and its use for instantaneously lighting up LEDs. Nano Energy, 2013, 2, 491-497.	8.2	264
31	Rapid mass production of two-dimensional metal oxides and hydroxides via the molten salts method. Nature Communications, 2017, 8, 15630.	5.8	258
32	Aqueous thermogalvanic cells with a high Seebeck coefficient for low-grade heat harvest. Nature Communications, 2018, 9, 5146.	5.8	255
33	An Aqueous Zn-Ion Hybrid Supercapacitor with High Energy Density and Ultrastability up to 80 000 Cycles. Advanced Energy Materials, 2019, 9, 1902915.	10.2	244
34	Lateral nanowire/nanobelt based nanogenerators, piezotronics and piezo-phototronics. Materials Science and Engineering Reports, 2010, 70, 320-329.	14.8	223
35	Growth and field-emission property of tungsten oxide nanotip arrays. Applied Physics Letters, 2005, 87, 223108.	1.5	219
36	A paper-based nanogenerator as a power source and active sensor. Energy and Environmental Science, 2013, 6, 1779.	15.6	218

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37	Wearable Thermocells Based on Gel Electrolytes for the Utilization of Body Heat. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12050-12053.	7.2	210
38	Fiber-Based Energy Conversion Devices for Human Body Energy Harvesting. <i>Advanced Materials</i> , 2020, 32, e1902034.	11.1	204
39	Flexible Transparent Molybdenum Trioxide Nanopaper for Energy Storage. <i>Advanced Materials</i> , 2016, 28, 6353-6358.	11.1	194
40	Al-doped γ -MnO ₂ for high mass-loading pseudocapacitor with excellent cycling stability. <i>Nano Energy</i> , 2015, 11, 226-234.	8.2	186
41	Freestanding functionalized carbon nanotube-based electrode for solid-state asymmetric supercapacitors. <i>Nano Energy</i> , 2014, 6, 1-9.	8.2	182
42	Effects of piezoelectric potential on the transport characteristics of metal-ZnO nanowire-metal field effect transistor. <i>Journal of Applied Physics</i> , 2009, 105, 113707.	1.1	176
43	Interfacial Solar-to-Heat Conversion for Desalination. <i>Advanced Energy Materials</i> , 2019, 9, 1900310.	10.2	174
44	Induced Potential in Porous Carbon Films through Water Vapor Absorption. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8003-8007.	7.2	170
45	Cellular Polypropylene Piezoelectret for Human Body Energy Harvesting and Health Monitoring. <i>Advanced Functional Materials</i> , 2015, 25, 4788-4794.	7.8	159
46	Three-dimensional WO ₃ nanostructures on carbon paper: photoelectrochemical property and visible light driven photocatalysis. <i>Chemical Communications</i> , 2011, 47, 5804.	2.2	158
47	Stretchable Self-Powered Fiber-Based Strain Sensor. <i>Advanced Functional Materials</i> , 2015, 25, 1798-1803.	7.8	155
48	Hyper-stretchable self-powered sensors based on electrohydrodynamically printed, self-similar piezoelectric nano/microfibers. <i>Nano Energy</i> , 2017, 40, 432-439.	8.2	150
49	Freestanding MoO ₃ nanobelt/carbon nanotube films for Li-ion intercalation pseudocapacitors. <i>Nano Energy</i> , 2014, 9, 355-363.	8.2	146
50	Surface functional modification boosts the output of an evaporation-driven water flow nanogenerator. <i>Nano Energy</i> , 2019, 58, 797-802.	8.2	145
51	High Surface Area Tunnels in Hexagonal WO ₃ . <i>Nano Letters</i> , 2015, 15, 4834-4838.	4.5	144
52	Piezoelectric Potential Gated Field-Effect Transistor Based on a Free-Standing ZnO Wire. <i>Nano Letters</i> , 2009, 9, 3435-3439.	4.5	132
53	Synthesis and field-emission properties of aligned MoO ₃ nanowires. <i>Applied Physics Letters</i> , 2003, 83, 2653-2655.	1.5	131
54	Paper-Based Active Tactile Sensor Array. <i>Advanced Materials</i> , 2015, 27, 7130-7136.	11.1	131

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55	A bio-inspired cilia array as the dielectric layer for flexible capacitive pressure sensors with high sensitivity and a broad detection range. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27334-27346.	5.2	130
56	Mechanical [^] Electrical Triggers and Sensors Using Piezoelectric Micowires/Nanowires. <i>Nano Letters</i> , 2008, 8, 2725-2730.	4.5	126
57	A nanogenerator for harvesting airflow energy and light energy. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2079-2087.	5.2	126
58	Ultrasensitive cellular fluorocarbon piezoelectret pressure sensor for self-powered human physiological monitoring. <i>Nano Energy</i> , 2017, 32, 42-49.	8.2	123
59	Dual functional transparent film for proximity and pressure sensing. <i>Nano Research</i> , 2014, 7, 1488-1496.	5.8	122
60	Electrospun polyetherimide electret nonwoven for bi-functional smart face mask. <i>Nano Energy</i> , 2017, 34, 562-569.	8.2	119
61	Noncontact Heartbeat and Respiration Monitoring Based on a Hollow Microstructured Self-Powered Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3660-3667.	4.0	119
62	Transferable self-welding silver nanowire network as high performance transparent flexible electrode. <i>Nanotechnology</i> , 2013, 24, 335202.	1.3	116
63	Salt [^] Assisted Synthesis of 2D Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1908486.	7.8	115
64	Hierarchical elastomer tuned self-powered pressure sensor for wearable multifunctional cardiovascular electronics. <i>Nano Energy</i> , 2020, 70, 104460.	8.2	113
65	Liquid-state thermocells: Opportunities and challenges for low-grade heat harvesting. <i>Joule</i> , 2021, 5, 768-779.	11.7	113
66	Bio [^] Inspired Hybrid Dielectric for Capacitive and Triboelectric Tactile Sensors with High Sensitivity and Ultrawide Linearity Range. <i>Advanced Materials</i> , 2021, 33, e2100859.	11.1	113
67	Thermal [^] Electric Nanogenerator Based on the Electrokinetic Effect in Porous Carbon Film. <i>Advanced Energy Materials</i> , 2018, 8, 1702481.	10.2	111
68	Dual-Mode Electronic Skin with Integrated Tactile Sensing and Visualized Injury Warning. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37493-37500.	4.0	110
69	Highly Efficient Water Harvesting with Optimized Solar Thermal Membrane Distillation Device. <i>Global Challenges</i> , 2018, 2, 1800001.	1.8	108
70	Piezoelectrets for wearable energy harvesters and sensors. <i>Nano Energy</i> , 2019, 65, 104033.	8.2	107
71	Surface charge self-recovering electret film for wearable energy conversion in a harsh environment. <i>Energy and Environmental Science</i> , 2016, 9, 3085-3091.	15.6	106
72	Investigations into the origin of pseudocapacitive behavior of Mn ₃ O ₄ electrodes using in operando Raman spectroscopy. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7338-7344.	5.2	104

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73	Atmospheric-Pressure Synthesis of 2D Nitrogen-Rich Tungsten Nitride. <i>Advanced Materials</i> , 2018, 30, e1805655.	11.1	104
74	Unveiling the Effects of Alkali Metal Ions Intercalated in Layered MnO_2 for Formaldehyde Catalytic Oxidation. <i>ACS Catalysis</i> , 2020, 10, 10021-10031.	5.5	102
75	Highly conductive and flexible molybdenum oxide nanopaper for high volumetric supercapacitor electrode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2897-2903.	5.2	101
76	Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801160.	1.9	100
77	Construction and Performance Characterization of $\text{Fe}_2\text{O}_3/\text{rGO}$ Composite for Long-Cycling-Life Supercapacitor Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5067-5074.	3.2	98
78	Self-Powered Human-Interactive Transparent Nanopaper Systems. <i>ACS Nano</i> , 2015, 9, 7399-7406.	7.3	97
79	Gasochromic effect and relative mechanism of WO_3 nanowire films. <i>Nanotechnology</i> , 2007, 18, 205701.	1.3	95
80	Electricity generation from water droplets via capillary infiltrating. <i>Nano Energy</i> , 2018, 48, 211-216.	8.2	94
81	Rich Alkali Ions Preintercalated Vanadium Oxides for Durable and Fast Zinc-Ion Storage. <i>ACS Energy Letters</i> , 2021, 6, 2111-2120.	8.8	94
82	Tungsten Oxide Nanowires Grown on Carbon Cloth as a Flexible Cold Cathode. <i>Advanced Materials</i> , 2010, 22, 5292-5296.	11.1	93
83	Intercalation of cations into partially reduced molybdenum oxide for high-rate pseudocapacitors. <i>Energy Storage Materials</i> , 2015, 1, 1-8.	9.5	92
84	P-N conversion in thermogalvanic cells induced by thermo-sensitive nanogels for body heat harvesting. <i>Nano Energy</i> , 2019, 57, 473-479.	8.2	89
85	Wearable Affective Robot. <i>IEEE Access</i> , 2018, 6, 64766-64776.	2.6	86
86	Field emission study of SiC nanowires/nanorods directly grown on SiC ceramic substrate. <i>Applied Physics Letters</i> , 2006, 89, 023118.	1.5	85
87	Toward high output-power nanogenerator. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	84
88	High-Performance Hazy Silver Nanowire Transparent Electrodes through Diameter Tailoring for Semitransparent Photovoltaics. <i>Advanced Functional Materials</i> , 2018, 28, 1705409.	7.8	84
89	Synthesis and Characterization of Self-Standing and Highly Flexible MnO_2 @CNTs/CNTs Composite Films for Direct Use of Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23721-23728.	4.0	83
90	Controlled growth of LaFeO_3 nanoparticles on reduced graphene oxide for highly efficient photocatalysis. <i>Nanoscale</i> , 2016, 8, 752-756.	2.8	83

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91	Self-Cleaning Flexible Infrared Nanosensor Based on Carbon Nanoparticles. ACS Nano, 2011, 5, 4007-4013.	7.3	82
92	Vertically Aligned Zn ₂ SiO ₄ Nanotube/ZnO Nanowire Heterojunction Arrays. Small, 2007, 3, 622-626.	5.2	78
93	Two-Dimensional Layered Heterostructures Synthesized from Core-Shell Nanowires. Angewandte Chemie - International Edition, 2015, 54, 8957-8960.	7.2	78
94	Distinctive Construction of Chitin-Derived Hierarchically Porous Carbon Microspheres/Polyaniline for High-Rate Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 28918-28927.	4.0	78
95	High performance flexible sensor based on inorganic nanomaterials. Sensors and Actuators B: Chemical, 2013, 176, 522-533.	4.0	77
96	Multilayered paper-like electrodes composed of alternating stacked mesoporous Mo ₂ N nanobelts and reduced graphene oxide for flexible all-solid-state supercapacitors. Journal of Materials Chemistry A, 2015, 3, 14617-14624.	5.2	75
97	Ultra-stretchable, bio-inspired ionic skins that work stably in various harsh environments. Journal of Materials Chemistry A, 2018, 6, 24114-24119.	5.2	75
98	Natural Materials Assembled, Biodegradable, and Transparent Paper-Based Electret Nanogenerator. ACS Applied Materials & Interfaces, 2016, 8, 35587-35592.	4.0	74
99	Ethanol reduced molybdenum trioxide for Li-ion capacitors. Nano Energy, 2016, 26, 100-107.	8.2	74
100	Carbon Nanoparticles on Carbon Fabric for Flexible and High-Performance Field Emitters. Advanced Functional Materials, 2011, 21, 2150-2154.	7.8	72
101	2D vanadium doped manganese dioxides nanosheets for pseudocapacitive energy storage. Nanoscale, 2015, 7, 16094-16099.	2.8	71
102	Microwave Combustion for Rapidly Synthesizing Pore-Size-Controllable Porous Graphene. Advanced Functional Materials, 2018, 28, 1800382.	7.8	70
103	Cloth-Based Power Shirt for Wearable Energy Harvesting and Clothes Ornamentation. ACS Applied Materials & Interfaces, 2015, 7, 14912-14916.	4.0	63
104	Tough hydrogel diodes with tunable interfacial adhesion for safe and durable wearable batteries. Nano Energy, 2018, 48, 569-574.	8.2	63
105	Architectural Engineering of Nanowire Network Fine Pattern for 30 μ m Wide Flexible Quantum Dot Light-Emitting Diode Application. ACS Nano, 2016, 10, 10023-10030.	7.3	62
106	Synthesis of silicon carbide nanowires in a catalyst-assisted process. Chemical Physics Letters, 2002, 356, 511-514.	1.2	61
107	Synthesis of single crystalline two-dimensional transition-metal phosphides via a salt-templating method. Nanoscale, 2018, 10, 6844-6849.	2.8	61
108	Living with I-Fabric: Smart Living Powered by Intelligent Fabric and Deep Analytics. IEEE Network, 2020, 34, 156-163.	4.9	61

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109	Synthesis of crystalline alumina nanowires and nanotrees. <i>Chemical Physics Letters</i> , 2002, 365, 505-508.	1.2	60
110	Anisotropic Third-Order Optical Nonlinearity of a single ZnO Micro/Nanowire. <i>Nano Letters</i> , 2012, 12, 833-838.	4.5	60
111	Mass Production of High-Quality Transition Metal Dichalcogenides Nanosheets via a Molten Salt Method. <i>Advanced Functional Materials</i> , 2019, 29, 1900649.	7.8	59
112	Theoretical Study of Cellular Piezoelectret Generators. <i>Advanced Functional Materials</i> , 2016, 26, 1964-1974.	7.8	58
113	Ultraviolet-visible emission from three-dimensional WO ₃ nanowire networks. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	57
114	Band gap engineering of MnO ₂ through in situ Al-doping for applicable pseudocapacitors. <i>RSC Advances</i> , 2016, 6, 13914-13919.	1.7	56
115	Unraveling the solvent induced welding of silver nanowires for high performance flexible transparent electrodes. <i>Nanoscale</i> , 2018, 10, 12981-12990.	2.8	55
116	Bandgap engineering of Ga _x Zn _{1-x} O nanowire arrays for wavelength-tunable light-emitting diodes. <i>Laser and Photonics Reviews</i> , 2014, 8, 429-435.	4.4	52
117	Molybdenum trioxide nanopaper as a dual gas sensor for detecting trimethylamine and hydrogen sulfide. <i>RSC Advances</i> , 2017, 7, 3680-3685.	1.7	52
118	4-Butylbenzenesulfonate modified polypyrrole paper for supercapacitor with exceptional cycling stability. <i>Energy Storage Materials</i> , 2018, 12, 191-196.	9.5	51
119	Flexible microfluidics nanogenerator based on the electrokinetic conversion. <i>Nano Energy</i> , 2016, 30, 684-690.	8.2	50
120	Tilted magnetic micropillars enabled dual-mode sensor for tactile/touchless perceptions. <i>Nano Energy</i> , 2020, 78, 105382.	8.2	49
121	Activated carbon derived from melaleuca barks for outstanding high-rate supercapacitors. <i>Nanotechnology</i> , 2015, 26, 304004.	1.3	48
122	Sandwiched Composite Fluorocarbon Film for Flexible Electret Generator. <i>Advanced Electronic Materials</i> , 2016, 2, 1500408.	2.6	48
123	Sensitivity-Enhanced Wearable Active Voiceprint Sensor Based on Cellular Polypropylene Piezoelectret. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23716-23722.	4.0	48
124	Highly rate and cycling stable electrode materials constructed from polyaniline/cellulose nanoporous microspheres. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16424-16429.	5.2	47
125	Solution processed flexible hybrid cell for concurrently scavenging solar and mechanical energies. <i>Nano Energy</i> , 2015, 16, 301-309.	8.2	45
126	Wearable Thermocells Based on Gel Electrolytes for the Utilization of Body Heat. <i>Angewandte Chemie</i> , 2016, 128, 12229-12232.	1.6	44

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127	Nanowire as pico-gram balance at workplace atmosphere. Solid State Communications, 2006, 139, 222-226.	0.9	42
128	Microwave Combustion for Modification of Transition Metal Oxides. Advanced Functional Materials, 2016, 26, 7263-7270.	7.8	42
129	Simultaneous Solar Steam and Electricity Generation from Synergistic Salinity-Temperature Gradient. Advanced Energy Materials, 2021, 11, 2100481.	10.2	42
130	Synthesis of large-scaled MoO ₂ nanowire arrays. Chemical Physics Letters, 2003, 382, 443-446.	1.2	40
131	High-Performance Hybrid Supercapacitor Based on Graphene-Wrapped Mesoporous Nb ₂ O ₅ Nanospheres Anode and Mesoporous Carbon-Coated Graphene Cathode. ChemElectroChem, 2016, 3, 1360-1368.	1.7	40
132	3D nanoporous ZnWO ₄ nanoparticles with excellent electrochemical performances for supercapacitors. Materials Letters, 2016, 177, 34-38.	1.3	39
133	SiC-Shell Nanostructures Fabricated by Replicating ZnO Nano-objects: A Technique for Producing Hollow Nanostructures of Desired Shape. Small, 2006, 2, 1344-1347.	5.2	38
134	Charge-Gradient Hydrogels Enable Direct Zero Liquid Discharge for Hypersaline Wastewater Management. Advanced Materials, 2021, 33, e2100141.	11.1	37
135	Anisotropic Magnetite Nanorods for Enhanced Magnetic Hyperthermia. Chemistry - an Asian Journal, 2016, 11, 2996-3000.	1.7	36
136	Hybrid Piezoelectret Based Highly Efficient Ultrasonic Energy Harvester for Implantable Electronics. Advanced Functional Materials, 2022, 32, .	7.8	34
137	Electrochromic properties of WO ₃ nanowire films and mechanism responsible for the near infrared absorption. Journal of Applied Physics, 2007, 101, 114303.	1.1	33
138	H ₂ MoO ₃ nanobelts with sea water as electrolyte for high-performance pseudocapacitors and desalination devices. Journal of Materials Chemistry A, 2015, 3, 17217-17223.	5.2	33
139	Theoretical study and structural optimization of a flexible piezoelectret-based pressure sensor. Journal of Materials Chemistry A, 2018, 6, 5065-5070.	5.2	33
140	Cryo-Transferred Ultrathin and Stretchable Epidermal Electrodes. Small, 2020, 16, e2000450.	5.2	33
141	Metal-free and non-fluorine paper-based generator. Nano Energy, 2015, 14, 236-244.	8.2	32
142	Self-Powered Multimodal Temperature and Force Sensor Based On a Liquid Droplet. Angewandte Chemie - International Edition, 2016, 55, 15864-15868.	7.2	32
143	A Novel Photoelectric Conversion Yarn by Integrating Photomechanical Actuation and the Electrostatic Effect. Advanced Materials, 2016, 28, 10744-10749.	11.1	31
144	An aqueous 2.1 V pseudocapacitor with MXene and V-MnO ₂ electrodes. Nano Research, 2022, 15, 535-541.	5.8	31

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145	Cost-effective n-type thermocells enabled by thermosensitive crystallizations and 3D multi-structured electrodes. <i>Nano Energy</i> , 2022, 93, 106795.	8.2	31
146	Electrokinetic Supercapacitor for Simultaneous Harvesting and Storage of Mechanical Energy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8010-8015.	4.0	29
147	Wearable 3.0: From Smart Clothing to Wearable Affective Robot. <i>IEEE Network</i> , 2019, 33, 8-14.	4.9	28
148	Electrostatic Assembly of Laminated Transparent Piezoelectrets for Epidermal and Implantable Electronics. <i>Nano Energy</i> , 2021, 89, 106450.	8.2	28
149	Recent Applications of Different Microstructure Designs in High Performance Tactile Sensors: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 10291-10303.	2.4	27
150	Measuring the transport property of ZnO tetrapod using in situ nanoprobe. <i>Chemical Physics Letters</i> , 2010, 484, 96-99.	1.2	26
151	Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries. <i>Chemical Communications</i> , 2021, 57, 7810-7813.	2.2	26
152	Output enhanced compact multilayer flexible nanogenerator for self-powered wireless remote system. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12787-12792.	5.2	25
153	Self-Cleaning Porous Surfaces for Dry Condensation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26759-26764.	4.0	24
154	Synthesis and Raman spectroscopic study of $W_{20}O_{58}$ nanowires. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 115305.	1.3	23
155	Cross-linked carbon network with hierarchical porous structure for high performance solid-state electrochemical capacitor. <i>Journal of Power Sources</i> , 2016, 327, 488-494.	4.0	23
156	Rapid synthesis of size-tunable transition metal carbide nanodots under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14489-14495.	5.2	22
157	Flexible THV/COC Piezoelectret Nanogenerator for Wide-Range Pressure Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29675-29683.	4.0	21
158	Rationally exfoliating chitin into 2D hierarchical porous carbon nanosheets for high-rate energy storage. <i>Nano Research</i> , 2020, 13, 1604-1613.	5.8	21
159	Boosting the Efficient Energy Output of Electret Nanogenerators by Suppressing Air Breakdown under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3984-3989.	4.0	20
160	High-temperature bearable polysulfonamide/polyacrylonitrile composite nanofibers for high-efficiency PM2.5 filtration. <i>Composites Communications</i> , 2021, 23, 100582.	3.3	19
161	All-Day Thermogalvanic Cells for Environmental Thermal Energy Harvesting. <i>Research</i> , 2019, 2019, 2460953.	2.8	18
162	Electrospun Polytetrafluoroethylene Nanofibrous Membrane for High-Performance Self-Powered Sensors. <i>Nanoscale Research Letters</i> , 2019, 14, 251.	3.1	17

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163	Heat-triggered high-performance thermocells enable a self-powered forest fire alarm. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26119-26126.	5.2	17
164	Improved Stability of Metal Nanowires via Electron Beam Irradiation Induced Surface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12195-12201.	4.0	16
165	High-efficiency solar heat storage enabled by adaptive radiation management. <i>Cell Reports Physical Science</i> , 2021, 2, 100533.	2.8	15
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