

Jun Zhou

List of Publications by Citations

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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.

189
papers

20,272
citations

73
h-index

141
g-index

197
ext. papers

23,068
ext. citations

12.5
avg, IF

6.76
L-index

#	Paper	IF	Citations
189	Flexible solid-state supercapacitors based on carbon nanoparticles/MnO ₂ nanorods hybrid structure. <i>ACS Nano</i> , 2012 , 6, 656-61	16.7	893
188	Piezoelectric field effect transistor and nanoforce sensor based on a single ZnO nanowire. <i>Nano Letters</i> , 2006 , 6, 2768-72	11.5	856
187	Hydrogenated ZnO core-shell nanocables for flexible supercapacitors and self-powered systems. <i>ACS Nano</i> , 2013 , 7, 2617-26	16.7	724
186	Flexible piezotronic strain sensor. <i>Nano Letters</i> , 2008 , 8, 3035-40	11.5	634
185	WO ₃ @Au@MnO ₂ core-shell nanowires on carbon fabric for high-performance flexible supercapacitors. <i>Advanced Materials</i> , 2012 , 24, 938-44	24	592
184	Fiber-based all-solid-state flexible supercapacitors for self-powered systems. <i>ACS Nano</i> , 2012 , 6, 9200-6	16.7	554
183	Polypyrrole-coated paper for flexible solid-state energy storage. <i>Energy and Environmental Science</i> , 2013 , 6, 470	35.4	517
182	Gigantic enhancement in response and reset time of ZnO UV nanosensor by utilizing Schottky contact and surface functionalization. <i>Applied Physics Letters</i> , 2009 , 94, 191103	3.4	471
181	Fiber-based generator for wearable electronics and mobile medication. <i>ACS Nano</i> , 2014 , 8, 6273-80	16.7	453
180	High-strain sensors based on ZnO nanowire/polystyrene hybridized flexible films. <i>Advanced Materials</i> , 2011 , 23, 5440-4	24	438
179	Water-evaporation-induced electricity with nanostructured carbon materials. <i>Nature Nanotechnology</i> , 2017 , 12, 317-321	28.7	428
178	WO ₃ /MoO ₃ Core/Shell Nanowires on Carbon Fabric as an Anode for All-Solid-State Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2012 , 2, 1328-1332	21.8	373
177	Freestanding mesoporous VN/CNT hybrid electrodes for flexible all-solid-state supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 5091-7	24	369
176	Ultrasensitive and highly selective gas sensors using three-dimensional tungsten oxide nanowire networks. <i>Applied Physics Letters</i> , 2006 , 88, 203101	3.4	363
175	Robust and Low-Cost Flame-Treated Wood for High-Performance Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15052-15057	9.5	359
174	Piezoelectric and semiconducting coupled power generating process of a single ZnO belt/wire. A technology for harvesting electricity from the environment. <i>Nano Letters</i> , 2006 , 6, 1656-62	11.5	338
173	Paper-based supercapacitors for self-powered nanosystems. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4934-8	16.4	332

172	Flexible and cross-linked N-doped carbon nanofiber network for high performance freestanding supercapacitor electrode. <i>Nano Energy</i> , 2015 , 15, 66-74	17.1	309
171	Scalable salt-templated synthesis of two-dimensional transition metal oxides. <i>Nature Communications</i> , 2016 , 7, 11296	17.4	300
170	Paper-based solid-state supercapacitors with pencil-drawing graphite/polyaniline networks hybrid electrodes. <i>Nano Energy</i> , 2013 , 2, 1071-1078	17.1	299
169	Supersensitive, fast-response nanowire sensors by using Schottky contacts. <i>Advanced Materials</i> , 2010 , 22, 3327-32	24	276
168	Solar-driven simultaneous steam production and electricity generation from salinity. <i>Energy and Environmental Science</i> , 2017 , 10, 1923-1927	35.4	268
167	A Bamboo-Inspired Nanostructure Design for Flexible, Foldable, and Twistable Energy Storage Devices. <i>Nano Letters</i> , 2015 , 15, 3899-906	11.5	257
166	Salt-Templated Synthesis of 2D Metallic MoN and Other Nitrides. <i>ACS Nano</i> , 2017 , 11, 2180-2186	16.7	246
165	Piezoelectric-potential-controlled polarity-reversible Schottky diodes and switches of ZnO wires. <i>Nano Letters</i> , 2008 , 8, 3973-7	11.5	244
164	Unique elastic N-doped carbon nanofibrous microspheres with hierarchical porosity derived from renewable chitin for high rate supercapacitors. <i>Nano Energy</i> , 2016 , 27, 482-491	17.1	229
163	Finger typing driven triboelectric nanogenerator and its use for instantaneously lighting up LEDs. <i>Nano Energy</i> , 2013 , 2, 491-497	17.1	222
162	A Low-Cost, Self-Standing NiCo ₂ O ₄ @CNT/CNT Multilayer Electrode for Flexible Asymmetric Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2017 , 27, 1702160	15.6	204
161	Growth and field-emission property of tungsten oxide nanotip arrays. <i>Applied Physics Letters</i> , 2005 , 87, 223108	3.4	203
160	A paper-based nanogenerator as a power source and active sensor. <i>Energy and Environmental Science</i> , 2013 , 6, 1779	35.4	191
159	Rapid mass production of two-dimensional metal oxides and hydroxides via the molten salts method. <i>Nature Communications</i> , 2017 , 8, 15630	17.4	190
158	Lateral nanowire/nanobelt based nanogenerators, piezotronics and piezo-phototronics. <i>Materials Science and Engineering Reports</i> , 2010 , 70, 320-329	30.9	185
157	Flexible Transparent Molybdenum Trioxide Nanopaper for Energy Storage. <i>Advanced Materials</i> , 2016 , 28, 6353-8	24	172
156	All-Printed Porous Carbon Film for Electricity Generation from Evaporation-Driven Water Flow. <i>Advanced Functional Materials</i> , 2017 , 27, 1700551	15.6	167
155	Freestanding functionalized carbon nanotube-based electrode for solid-state asymmetric supercapacitors. <i>Nano Energy</i> , 2014 , 6, 1-9	17.1	166

154	Al-doped MnO ₂ for high mass-loading pseudocapacitor with excellent cycling stability. <i>Nano Energy</i> , 2015 , 11, 226-234	17.1	157
153	Three-dimensional WO ₃ nanostructures on carbon paper: photoelectrochemical property and visible light driven photocatalysis. <i>Chemical Communications</i> , 2011 , 47, 5804-6	5.8	143
152	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	2.5	141
151	An Aqueous Zn-Ion Hybrid Supercapacitor with High Energy Density and Ultrastability up to 80 000 Cycles. <i>Advanced Energy Materials</i> , 2019 , 9, 1902915	21.8	137
150	Wearable Thermocells Based on Gel Electrolytes for the Utilization of Body Heat. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12050-3	16.4	132
149	Stretchable Self-Powered Fiber-Based Strain Sensor. <i>Advanced Functional Materials</i> , 2015 , 25, 1798-1803	15.6	130
148	Freestanding MoO ₃ nanobelt/carbon nanotube films for Li-ion intercalation pseudocapacitors. <i>Nano Energy</i> , 2014 , 9, 355-363	17.1	125
147	Aqueous thermogalvanic cells with a high Seebeck coefficient for low-grade heat harvest. <i>Nature Communications</i> , 2018 , 9, 5146	17.4	123
146	Piezoelectric potential gated field-effect transistor based on a free-standing ZnO wire. <i>Nano Letters</i> , 2009 , 9, 3435-9	11.5	121
145	Synthesis and field-emission properties of aligned MoO ₃ nanowires. <i>Applied Physics Letters</i> , 2003 , 83, 2653-2655	3.4	120
144	Fiber-Based Energy Conversion Devices for Human-Body Energy Harvesting. <i>Advanced Materials</i> , 2020 , 32, e1902034	24	120
143	High Surface Area Tunnels in Hexagonal WO ₃ . <i>Nano Letters</i> , 2015 , 15, 4834-8	11.5	118
142	Hyper-stretchable self-powered sensors based on electrohydrodynamically printed, self-similar piezoelectric nano/microfibers. <i>Nano Energy</i> , 2017 , 40, 432-439	17.1	115
141	Interfacial Solar-to-Heat Conversion for Desalination. <i>Advanced Energy Materials</i> , 2019 , 9, 1900310	21.8	114
140	A nanogenerator for harvesting airflow energy and light energy. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2079-2087	13	113
139	Paper-Based Active Tactile Sensor Array. <i>Advanced Materials</i> , 2015 , 27, 7130-6	24	113
138	Cellular Polypropylene Piezoelectret for Human Body Energy Harvesting and Health Monitoring. <i>Advanced Functional Materials</i> , 2015 , 25, 4788-4794	15.6	111
137	Mechanical-electrical triggers and sensors using piezoelectric micowires/nanowires. <i>Nano Letters</i> , 2008 , 8, 2725-30	11.5	110

136	Paper-Based Supercapacitors for Self-Powered Nanosystems. <i>Angewandte Chemie</i> , 2012 , 124, 5018-5022	3.6	109
135	Thermosensitive crystallization-boosted liquid thermocells for low-grade heat harvesting. <i>Science</i> , 2020 , 370, 342-346	33.3	109
134	Induced Potential in Porous Carbon Films through Water Vapor Absorption. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8003-7	16.4	104
133	Transferable self-welding silver nanowire network as high performance transparent flexible electrode. <i>Nanotechnology</i> , 2013 , 24, 335202	3.4	100
132	Dual functional transparent film for proximity and pressure sensing. <i>Nano Research</i> , 2014 , 7, 1488-1496	10	96
131	Ultrasensitive cellular fluorocarbon piezoelectret pressure sensor for self-powered human physiological monitoring. <i>Nano Energy</i> , 2017 , 32, 42-49	17.1	94
130	Tungsten oxide nanowires grown on carbon cloth as a flexible cold cathode. <i>Advanced Materials</i> , 2010 , 22, 5292-6	24	92
129	Self-Powered Human-Interactive Transparent Nanopaper Systems. <i>ACS Nano</i> , 2015 , 9, 7399-406	16.7	85
128	Surface charge self-recovering electret film for wearable energy conversion in a harsh environment. <i>Energy and Environmental Science</i> , 2016 , 9, 3085-3091	35.4	85
127	Gasochromic effect and relative mechanism of WO ₃ nanowire films. <i>Nanotechnology</i> , 2007 , 18, 205701	3.4	83
126	Noncontact Heartbeat and Respiration Monitoring Based on a Hollow Microstructured Self-Powered Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3660-3667	9.5	81
125	Highly conductive and flexible molybdenum oxide nanopaper for high volumetric supercapacitor electrode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2897-2903	13	80
124	Intercalation of cations into partially reduced molybdenum oxide for high-rate pseudocapacitors. <i>Energy Storage Materials</i> , 2015 , 1, 1-8	19.4	80
123	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	13	80
122	Dual-Mode Electronic Skin with Integrated Tactile Sensing and Visualized Injury Warning. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37493-37500	9.5	78
121	Field emission study of SiC nanowires/nanorods directly grown on SiC ceramic substrate. <i>Applied Physics Letters</i> , 2006 , 89, 023118	3.4	78
120	ThermalElectric Nanogenerator Based on the Electrokinetic Effect in Porous Carbon Film. <i>Advanced Energy Materials</i> , 2018 , 8, 1702481	21.8	76
119	Toward high output-power nanogenerator. <i>Applied Physics Letters</i> , 2008 , 92, 173105	3.4	74

118	Vertically aligned Zn ₂ SiO ₄ nanotube/ZnO nanowire heterojunction arrays. <i>Small</i> , 2007 , 3, 622-6	11	74
117	Electrospun polyetherimide electret nonwoven for bi-functional smart face mask. <i>Nano Energy</i> , 2017 , 34, 562-569	17.1	73
116	Highly Efficient Water Harvesting with Optimized Solar Thermal Membrane Distillation Device. <i>Global Challenges</i> , 2018 , 2, 1800001	4.3	73
115	Self-cleaning flexible infrared nanosensor based on carbon nanoparticles. <i>ACS Nano</i> , 2011 , 5, 4007-13	16.7	71
114	Controlled growth of LaFeO ₃ nanoparticles on reduced graphene oxide for highly efficient photocatalysis. <i>Nanoscale</i> , 2016 , 8, 752-6	7.7	70
113	High-Performance Hazy Silver Nanowire Transparent Electrodes through Diameter Tailoring for Semitransparent Photovoltaics. <i>Advanced Functional Materials</i> , 2018 , 28, 1705409	15.6	69
112	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	13	69
111	Wearable Affective Robot. <i>IEEE Access</i> , 2018 , 6, 64766-64776	3.5	69
110	Atmospheric-Pressure Synthesis of 2D Nitrogen-Rich Tungsten Nitride. <i>Advanced Materials</i> , 2018 , 30, e1805655	24	69
109	Carbon Nanoparticles on Carbon Fabric for Flexible and High-Performance Field Emitters. <i>Advanced Functional Materials</i> , 2011 , 21, 2150-2154	15.6	68
108	Construction and Performance Characterization of Fe ₂ O ₃ /rGO Composite for Long-Cycling-Life Supercapacitor Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5067-5074	8.3	66
107	Multilayered paper-like electrodes composed of alternating stacked mesoporous Mo ₂ N nanobelts and reduced graphene oxide for flexible all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14617-14624	13	66
106	High performance flexible sensor based on inorganic nanomaterials. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 522-533	8.5	64
105	Two-Dimensional Layered Heterostructures Synthesized from Core-Shell Nanowires. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8957-60	16.4	64
104	Surface functional modification boosts the output of an evaporation-driven water flow nanogenerator. <i>Nano Energy</i> , 2019 , 58, 797-802	17.1	63
103	Synthesis and Characterization of Self-Standing and Highly Flexible EMnO ₂ @CNTs/CNTs Composite Films for Direct Use of Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23721-8	9.5	63
102	Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801160	4.6	63
101	Ethanol reduced molybdenum trioxide for Li-ion capacitors. <i>Nano Energy</i> , 2016 , 26, 100-107	17.1	60

100	Natural Materials Assembled, Biodegradable, and Transparent Paper-Based Electret Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35587-35592	9.5	59
99	Architectural Engineering of Nanowire Network Fine Pattern for 30 μm Wide Flexible Quantum Dot Light-Emitting Diode Application. <i>ACS Nano</i> , 2016 , 10, 10023-10030	16.7	56
98	Synthesis of crystalline alumina nanowires and nanotrees. <i>Chemical Physics Letters</i> , 2002 , 365, 505-508	2.5	56
97	Hierarchical elastomer tuned self-powered pressure sensor for wearable multifunctional cardiovascular electronics. <i>Nano Energy</i> , 2020 , 70, 104460	17.1	56
96	Electricity generation from water droplets via capillary infiltrating. <i>Nano Energy</i> , 2018 , 48, 211-216	17.1	53
95	Synthesis of silicon carbide nanowires in a catalyst-assisted process. <i>Chemical Physics Letters</i> , 2002 , 356, 511-514	2.5	53
94	2D vanadium doped manganese dioxides nanosheets for pseudocapacitive energy storage. <i>Nanoscale</i> , 2015 , 7, 16094-9	7.7	52
93	Piezoelectrets for wearable energy harvesters and sensors. <i>Nano Energy</i> , 2019 , 65, 104033	17.1	52
92	Distinctive Construction of Chitin-Derived Hierarchically Porous Carbon Microspheres/Polyaniline for High-Rate Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28918-28927	9.5	51
91	Anisotropic third-order optical nonlinearity of a single ZnO micro/nanowire. <i>Nano Letters</i> , 2012 , 12, 833-835	11.5	51
90	Ultraviolet-visible emission from three-dimensional WO ₃ nanowire networks. <i>Applied Physics Letters</i> , 2007 , 91, 093124	3.4	50
89	Cloth-Based Power Shirt for Wearable Energy Harvesting and Clothes Ornamentation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14912-6	9.5	49
88	Theoretical Study of Cellular Piezoelectret Generators. <i>Advanced Functional Materials</i> , 2016 , 26, 1964-1974	14.6	48
87	Microwave Combustion for Rapidly Synthesizing Pore-Size-Controllable Porous Graphene. <i>Advanced Functional Materials</i> , 2018 , 28, 1800382	15.6	47
86	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	8.3	46
85	Ultra-stretchable, bio-inspired ionic skins that work stably in various harsh environments. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24114-24119	13	45
84	Synthesis of single crystalline two-dimensional transition-metal phosphides via a salt-templating method. <i>Nanoscale</i> , 2018 , 10, 6844-6849	7.7	43
83	P-N conversion in thermogalvanic cells induced by thermo-sensitive nanogels for body heat harvesting. <i>Nano Energy</i> , 2019 , 57, 473-479	17.1	42

82	Solution processed flexible hybrid cell for concurrently scavenging solar and mechanical energies. <i>Nano Energy</i> , 2015 , 16, 301-309	17.1	41
81	Salt-Assisted Synthesis of 2D Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1908486	15.6	41
80	Tough hydrogel diodes with tunable interfacial adhesion for safe and durable wearable batteries. <i>Nano Energy</i> , 2018 , 48, 569-574	17.1	40
79	Unraveling the solvent induced welding of silver nanowires for high performance flexible transparent electrodes. <i>Nanoscale</i> , 2018 , 10, 12981-12990	7.7	40
78	Mass Production of High-Quality Transition Metal Dichalcogenides Nanosheets via a Molten Salt Method. <i>Advanced Functional Materials</i> , 2019 , 29, 1900649	15.6	39
77	Living with I-Fabric: Smart Living Powered by Intelligent Fabric and Deep Analytics. <i>IEEE Network</i> , 2020 , 34, 156-163	11.4	39
76	Band gap engineering of MnO ₂ through in situ Al-doping for applicable pseudocapacitors. <i>RSC Advances</i> , 2016 , 6, 13914-13919	3.7	39
75	Activated carbon derived from melaleuca barks for outstanding high-rate supercapacitors. <i>Nanotechnology</i> , 2015 , 26, 304004	3.4	38
74	Highly rate and cycling stable electrode materials constructed from polyaniline/cellulose nanoporous microspheres. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16424-16429	13	38
73	Sandwiched Composite Fluorocarbon Film for Flexible Electret Generator. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500408	6.4	38
72	Nanowire as pico-gram balance at workplace atmosphere. <i>Solid State Communications</i> , 2006 , 139, 222-2266		38
71	4-Butylbenzenesulfonate modified polypyrrole paper for supercapacitor with exceptional cycling stability. <i>Energy Storage Materials</i> , 2018 , 12, 191-196	19.4	37
70	Sensitivity-Enhanced Wearable Active Voiceprint Sensor Based on Cellular Polypropylene Piezoelectret. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23716-23722	9.5	36
69	Flexible microfluidics nanogenerator based on the electrokinetic conversion. <i>Nano Energy</i> , 2016 , 30, 684-690	17.1	36
68	Bio-Inspired Hybrid Dielectric for Capacitive and Triboelectric Tactile Sensors with High Sensitivity and Ultrawide Linearity Range. <i>Advanced Materials</i> , 2021 , 33, e2100859	24	36
67	High-Performance Hybrid Supercapacitor Based on Graphene-Wrapped Mesoporous T-Nb ₂ O ₅ Nanospheres Anode and Mesoporous Carbon-Coated Graphene Cathode. <i>ChemElectroChem</i> , 2016 , 3, 1360-1368	4.3	36
66	Molybdenum trioxide nanopaper as a dual gas sensor for detecting trimethylamine and hydrogen sulfide. <i>RSC Advances</i> , 2017 , 7, 3680-3685	3.7	35
65	SiC-shell nanostructures fabricated by replicating ZnO nano-objects: a technique for producing hollow nanostructures of desired shape. <i>Small</i> , 2006 , 2, 1344-7	11	35

64	Synthesis of large-scaled MoO ₂ nanowire arrays. <i>Chemical Physics Letters</i> , 2003 , 382, 443-446	2.5	35
63	Unveiling the Effects of Alkali Metal Ions Intercalated in Layered MnO ₂ for Formaldehyde Catalytic Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 10021-10031	13.1	35
62	Electrochromic properties of WO ₃ nanowire films and mechanism responsible for the near infrared absorption. <i>Journal of Applied Physics</i> , 2007 , 101, 114303	2.5	32
61	Microwave Combustion for Modification of Transition Metal Oxides. <i>Advanced Functional Materials</i> , 2016 , 26, 7263-7270	15.6	32
60	Wearable Thermocells Based on Gel Electrolytes for the Utilization of Body Heat. <i>Angewandte Chemie</i> , 2016 , 128, 12229-12232	3.6	30
59	HxMoO ₃ nanobelts with sea water as electrolyte for high-performance pseudocapacitors and desalination devices. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17217-17223	13	29
58	Metal-free and non-fluorine paper-based generator. <i>Nano Energy</i> , 2015 , 14, 236-244	17.1	29
57	Anisotropic Magnetite Nanorods for Enhanced Magnetic Hyperthermia. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2996-3000	4.5	29
56	A Novel Photoelectric Conversion Yarn by Integrating Photomechanical Actuation and the Electrostatic Effect. <i>Advanced Materials</i> , 2016 , 28, 10744-10749	24	26
55	Theoretical study and structural optimization of a flexible piezoelectret-based pressure sensor. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5065-5070	13	25
54	3D nanoporous ZnWO ₄ nanoparticles with excellent electrochemical performances for supercapacitors. <i>Materials Letters</i> , 2016 , 177, 34-38	3.3	25
53	Rich Alkali Ions Preintercalated Vanadium Oxides for Durable and Fast Zinc-Ion Storage. <i>ACS Energy Letters</i> , 2021 , 6, 2111-2120	20.1	24
52	Measuring the transport property of ZnO tetrapod using in situ nanoprobe. <i>Chemical Physics Letters</i> , 2010 , 484, 96-99	2.5	23
51	Liquid-state thermocells: Opportunities and challenges for low-grade heat harvesting. <i>Joule</i> , 2021 , 5, 768-779	27.8	23
50	Electrokinetic Supercapacitor for Simultaneous Harvesting and Storage of Mechanical Energy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8010-8015	9.5	21
49	Self-Powered Multimodal Temperature and Force Sensor Based-On a Liquid Droplet. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15864-15868	16.4	21
48	Synthesis and Raman spectroscopic study of W ₂ O ₅ nanowires. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 115305	3	21
47	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	8.9	20

46	Output enhanced compact multilayer flexible nanogenerator for self-powered wireless remote system. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12787-12792	13	19
45	Self-Cleaning Porous Surfaces for Dry Condensation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26759-26764	9.5	17
44	Tilted magnetic micropillars enabled dual-mode sensor for tactile/touchless perceptions. <i>Nano Energy</i> , 2020 , 78, 105382	17.1	17
43	Rapid synthesis of size-tunable transition metal carbide nanodots under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14489-14495	13	16
42	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	9.5	16
41	Wearable 3.0: From Smart Clothing to Wearable Affective Robot. <i>IEEE Network</i> , 2019 , 33, 8-14	11.4	15
40	Cryo-Transferred Ultrathin and Stretchable Epidermal Electrodes. <i>Small</i> , 2020 , 16, e2000450	11	14
39	Flexible THV/COC Piezoelectret Nanogenerator for Wide-Range Pressure Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29675-29683	9.5	14
38	Improved Stability of Metal Nanowires via Electron Beam Irradiation Induced Surface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12195-12201	9.5	13
37	Fabrication of TiO ₂ coated porous CoMn ₂ O ₄ submicrospheres for advanced lithium-ion anodes. <i>RSC Advances</i> , 2017 , 7, 21214-21220	3.7	11
36	Electrospun Polytetrafluoroethylene Nanofibrous Membrane for High-Performance Self-Powered Sensors. <i>Nanoscale Research Letters</i> , 2019 , 14, 251	5	11
35	Electric field drives the nonlinear resonance of a piezoelectric nanowire. <i>Solid State Communications</i> , 2007 , 144, 118-123	1.6	11
34	Recent Applications of Different Microstructure Designs in High Performance Tactile Sensors: A Review. <i>IEEE Sensors Journal</i> , 2021 , 21, 10291-10303	4	10
33	High-temperature bearable polysulfonamide/polyacrylonitrile composite nanofibers for high-efficiency PM _{2.5} filtration. <i>Composites Communications</i> , 2021 , 23, 100582	6.7	10
32	Three-dimensional ZnO porous films for self-cleaning ultraviolet photodetectors. <i>RSC Advances</i> , 2015 , 5, 85969-85973	3.7	9
31	Micrometer-Scale Kirkendall Effect in the Formation of High-Temperature-Resistant Cr ₂ O ₃ /Al ₂ O ₃ Solid Solution Hollow Fibers. <i>Chemistry of Materials</i> , 2018 , 30, 5978-5986	9.6	9
30	Simultaneous Solar Steam and Electricity Generation from Synergistic Salinity-Temperature Gradient. <i>Advanced Energy Materials</i> , 2021 , 11, 2100481	21.8	9
29	Large-scale synthesis of size- and thickness-tunable conducting polymer nanosheets via a salt-templated method. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24929-24936	13	9

28	All-Day Thermogalvanic Cells for Environmental Thermal Energy Harvesting. <i>Research</i> , 2019 , 2019, 2460953	8	8
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