

Yue Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

392
papers

20,970
citations

5574

82
h-index

16183

124
g-index

395
all docs

395
docs citations

395
times ranked

22136
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly conductive and stretching-insensitive films for wearable accurate pressure perception. <i>Chemical Engineering Journal</i> , 2022, 429, 132488.	12.7	16
2	Interface Engineering in 1D ZnO-Based Heterostructures for Photoelectrical Devices. <i>Advanced Functional Materials</i> , 2022, 32, 2106887.	14.9	27
3	A stretching-insensitive, self-powered and wearable pressure sensor. <i>Nano Energy</i> , 2022, 91, 106695.	16.0	40
4	Increased abscisic acid sensitivity and drought tolerance of Arabidopsis by overexpression of poplar abscisic acid receptors. <i>Plant Cell, Tissue and Organ Culture</i> , 2022, 148, 231-245.	2.3	4
5	Phase reconfiguration of multivalent nickel sulfides in hydrogen evolution. <i>Energy and Environmental Science</i> , 2022, 15, 633-644.	30.8	68
6	Interpretation of Rubidium-Based Perovskite Recipes toward Electronic Passivation and Ion-Diffusion Mitigation. <i>Advanced Materials</i> , 2022, 34, e2109998.	21.0	29
7	Flexible electronics and optoelectronics of 2D van der Waals materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 671-690.	4.9	10
8	Thickness and Morphology Dependent Electrical Properties of ALD-Synthesized MoS ₂ FETs. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	9
9	The transcription factor GNC optimizes nitrogen use efficiency and growth by up-regulating the expression of nitrate uptake and assimilation genes in poplar. <i>Journal of Experimental Botany</i> , 2022, 73, 4778-4792.	4.8	4
10	Ion migration in hybrid perovskites: Classification, identification, and manipulation. <i>Nano Today</i> , 2022, 44, 101503.	11.9	41
11	Endogenous Synergistic Enhanced Self-Powered Photodetector via Multi-Effect Coupling Strategy toward High-Efficiency Ultraviolet Communication. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	20
12	Ultra-stable ZnO nanobelts in electrochemical environments. <i>Materials Chemistry Frontiers</i> , 2021, 5, 430-437.	5.9	15
13	Microclimate in an urban park and its influencing factors: a case study of Tiantan Park in Beijing, China. <i>Urban Ecosystems</i> , 2021, 24, 767-778.	2.4	17
14	Self-powered ultrasensitive pulse sensors for noninvasive multi-indicators cardiovascular monitoring. <i>Nano Energy</i> , 2021, 81, 105614.	16.0	52
15	Gate-Controlled Polarity-Reversible Photodiodes with Ambipolar 2D Semiconductors. <i>Advanced Functional Materials</i> , 2021, 31, 2007559.	14.9	38
16	The coupling effect characterization for van der Waals structures based on transition metal dichalcogenides. <i>Nano Research</i> , 2021, 14, 1734-1751.	10.4	11
17	Strain Engineering in 2D Material-Based Flexible Optoelectronics. <i>Small Methods</i> , 2021, 5, e2000919.	8.6	80
18	Advent of alkali metal doping: a roadmap for the evolution of perovskite solar cells. <i>Chemical Society Reviews</i> , 2021, 50, 2696-2736.	38.1	90

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19	Broadband electromagnetic wave absorption properties and mechanism of MoS ₂ /rGO nanocomposites. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5063-5070.	5.9	13
20	Identification of Photoexcited Electron Relaxation in a Cobalt Phosphide Modified Carbon Nitride Photocatalyst. <i>ChemPhotoChem</i> , 2021, 5, 330-334.	3.0	8
21	Tuning drought resistance by using a root-specific expression transcription factor PdNF-YB21 in <i>Arabidopsis thaliana</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 145, 379-391.	2.3	1
22	<i>PdGNC</i> confers drought tolerance by mediating stomatal closure resulting from NO and H ₂ O ₂ production via the direct regulation of <i>PdHXK1</i> expression in <i>Populus</i> . <i>New Phytologist</i> , 2021, 230, 1868-1882.	7.3	50
23	Enhanced sulfur utilization in lithium-sulfur batteries by hybrid modified separators. <i>Materials Today Communications</i> , 2021, 26, 102133.	1.9	6
24	On the Contact Optimization of ALD-Based MoS ₂ FETs: Correlation of Processing Conditions and Interface Chemistry with Device Electrical Performance. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3185-3199.	4.3	8
25	Effects of individual and community-level environment components on the subjective well-being of poverty alleviation migrants: the case in Guizhou, China. <i>International Journal of Sustainable Development and World Ecology</i> , 2021, 28, 622-631.	5.9	6
26	Information accessibility oriented self-powered and ripple-inspired fingertip interactors with auditory feedback. <i>Nano Energy</i> , 2021, 87, 106117.	16.0	7
27	Stabilization effects in binary colloidal Cu and Ag nanoparticle electrodes under electrochemical CO ₂ reduction conditions. <i>Nanoscale</i> , 2021, 13, 4835-4844.	5.6	29
28	Both Clathrin-Mediated and Membrane Microdomain-Associated Endocytosis Contribute to the Cellular Adaptation to Hyperosmotic Stress in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 12534.	4.1	3
29	In situ microscopy techniques for characterizing the mechanical properties and deformation behavior of two-dimensional (2D) materials. <i>Materials Today</i> , 2021, 51, 247-272.	14.2	22
30	Hormonal Regulatory Patterns of LaKNOXs and LaBEL1 Transcription Factors Reveal Their Potential Role in Stem Bulblet Formation in LA Hybrid Lily. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13502.	4.1	5
31	Defect-Engineered Atomically Thin MoS ₂ Homogeneous Electronics for Logic Inverters. <i>Advanced Materials</i> , 2020, 32, e1906646.	21.0	94
32	An uncertainty-based multivariate statistical approach to predict crop water footprint under climate change: a case study of Lake Dianchi Basin, China. <i>Natural Hazards</i> , 2020, 104, 91-110.	3.4	8
33	Synergistic engineering of dielectric and magnetic losses in M-Co/rGO nanocomposites for use in high-performance microwave absorption. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3013-3021.	5.9	23
34	Atomic-Thin ZnO Sheet for Visible-Blind Ultraviolet Photodetection. <i>Small</i> , 2020, 16, e2005520.	10.0	45
35	A cross-contamination risk assessment model with improved coefficient optimization for <i>Campylobacter</i> . <i>International Journal of Food Properties</i> , 2020, 23, 1579-1596.	3.0	1
36	Synthesis of edge-enriched WS ₂ on high surface area WS ₂ framework by atomic layer deposition for electrocatalytic hydrogen evolution reaction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	2.1	4

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37	Root-specific NF- κ B family transcription factor, <i>PdNF-κB21</i> , positively regulates root growth and drought resistance by abscisic acid-mediated indoleacetic acid transport in <i>Populus</i> s. <i>New Phytologist</i> , 2020, 227, 407-426.	7.3	102
38	Walnut Polyphenol Extract Protects against Malathion- and Chlorpyrifos-Induced Immunotoxicity by Modulating TLR \times -NOX-ROS. <i>Nutrients</i> , 2020, 12, 616.	4.1	19
39	Tumbler-shaped hybrid triboelectric nanogenerators for amphibious self-powered environmental monitoring. <i>Nano Energy</i> , 2020, 76, 104960.	16.0	49
40	Controlling the Facet of ZnO during Wet Chemical Etching Its (0001 \AA) O \AA -Terminated Surface. <i>Small</i> , 2020, 16, e1906435.	10.0	8
41	Coupling metal-organic framework nanosphere and nanobody for boosted photoelectrochemical immunoassay of Human Epididymis Protein 4. <i>Analytica Chimica Acta</i> , 2020, 1107, 145-154.	5.4	36
42	Seasonal expressions of prostaglandin E synthases and receptors in the prostate of the wild ground squirrel (<i>Spermophilus dauricus</i>). <i>Prostaglandins and Other Lipid Mediators</i> , 2020, 148, 106412.	1.9	3
43	Emerging Conductive Atomic Force Microscopy for Metal Halide Perovskite Materials and Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903922.	19.5	63
44	3D Holey-Graphene Architecture Expedites Ion Transport Kinetics to Push the OER Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2001005.	19.5	41
45	Graphdiyne Nanowall for Enhanced Photoelectrochemical Performance of Si Heterojunction Photoanode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2745-2749.	8.0	28
46	Strain-Engineered van der Waals Interfaces of Mixed-Dimensional Heterostructure Arrays. <i>ACS Nano</i> , 2019, 13, 9057-9066.	14.6	94
47	Graphene-Based Mixed-Dimensional van der Waals Heterostructures for Advanced Optoelectronics. <i>Advanced Materials</i> , 2019, 31, e1806411.	21.0	115
48	A MYB-Related Transcription Factor from <i>Lilium lancifolium</i> L. (LIMYB3) Is Involved in Anthocyanin Biosynthesis Pathway and Enhances Multiple Abiotic Stress Tolerance in <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 3195.	4.1	25
49	A Stress-Responsive NAC Transcription Factor from Tiger Lily (LINAC2) Interacts with LIDREB1 and LIZHFD4 and Enhances Various Abiotic Stress Tolerance in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 3225.	4.1	40
50	Nitric Oxide Enhances Cytotoxicity of Lead by Modulating the Generation of Reactive Oxygen Species and Is Involved in the Regulation of Pb $^{2+}$ and Ca $^{2+}$ Fluxes in Tobacco BY-2 Cells. <i>Plants</i> , 2019, 8, 403.	3.5	9
51	Double-Shelled Co $_{3}$ O $_{4}$ /C Nanocages Enabling Polysulfides Adsorption for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 8153-8162.	5.1	55
52	Low-Temperature Phase-Controlled Synthesis of Titanium Di- and Tri-sulfide by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2019, 31, 9354-9362.	6.7	35
53	Self-powered flexible antibacterial tactile sensor based on triboelectric-piezoelectric-pyroelectric multi-effect coupling mechanism. <i>Nano Energy</i> , 2019, 66, 104105.	16.0	58
54	Hemicyanine-based near-infrared fluorescent probe for the ultrasensitive detection of hNQO1 activity and discrimination of human cancer cells. <i>Analytica Chimica Acta</i> , 2019, 1090, 125-132.	5.4	25

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55	Transcriptional Regulatory Network of GA Floral Induction Pathway in LA Hybrid Lily. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2694.	4.1	13
56	Recent Advances in Triboelectric Nanogenerator-Based Health Monitoring. <i>Advanced Functional Materials</i> , 2019, 29, 1808849.	14.9	167
57	Ligand Engineering for Improved All-Inorganic Perovskite Quantum Dot-MoS ₂ Monolayer Mixed Dimensional van der Waals Phototransistor. <i>Small Methods</i> , 2019, 3, 1900117.	8.6	40
58	Interface Engineering for Modulation of Charge Carrier Behavior in ZnO Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2019, 29, 1808032.	14.9	153
59	Self-Healing Originated van der Waals Homo Junctions with Strong Interlayer Coupling for High-Performance Photodiodes. <i>ACS Nano</i> , 2019, 13, 3280-3291.	14.6	69
60	Toward the Application of High Frequency Electromagnetic Wave Absorption by Carbon Nanostructures. <i>Advanced Science</i> , 2019, 6, 1801057.	11.2	312
61	Kelvin probe force microscopy for perovskite solar cells. <i>Science China Materials</i> , 2019, 62, 776-789.	6.3	93
62	Boosting the Sensitivity of a Photoelectrochemical Immunoassay by Using SiO ₂ @polydopamine Core-Shell Nanoparticles as a Highly Efficient Quencher. <i>ACS Applied Nano Materials</i> , 2019, 2, 1579-1588.	5.0	45
63	Self-powered visualization system by conjunction of photovoltaic effect and contact-electrification. <i>Nano Energy</i> , 2019, 57, 528-534.	16.0	11
64	Piezotronic effect on interfacial charge modulation in mixed-dimensional Van der Waals heterostructure for ultrasensitive flexible photodetectors. <i>Nano Energy</i> , 2019, 58, 85-93.	16.0	66
65	Green hybrid power system based on triboelectric nanogenerator for wearable/portable electronics. <i>Nano Energy</i> , 2019, 55, 151-163.	16.0	129
66	Comparative Genomic Analysis Reveals the Mechanism Driving the Diversification of Plastomic Structure in Taxaceae Species. <i>Frontiers in Genetics</i> , 2019, 10, 1295.	2.3	4
67	Facile synthesis of NiCo ₂ S ₄ nanowire arrays on 3D graphene foam for high-performance electrochemical capacitors application. <i>Journal of Materials Science</i> , 2018, 53, 10292-10301.	3.7	38
68	A three-dimensional reticulate CNT-aerogel for a high mechanical flexibility fiber supercapacitor. <i>Nanoscale</i> , 2018, 10, 9360-9368.	5.6	71
69	Stability of CoP _x Electrocatalysts in Continuous and Interrupted Acidic Electrolysis of Water. <i>ChemElectroChem</i> , 2018, 5, 1230-1239.	3.4	35
70	Development, applications, and future directions of triboelectric nanogenerators. <i>Nano Research</i> , 2018, 11, 2951-2969.	10.4	112
71	Ferroelectric polarization-enhanced charge separation in a vanadium-doped ZnO photoelectrochemical system. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1533-1539.	6.0	27
72	Ultralight, self-powered and self-adaptive motion sensor based on triboelectric nanogenerator for perceptual layer application in Internet of things. <i>Nano Energy</i> , 2018, 48, 312-319.	16.0	54

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73	Effect of UV Irradiation and Heat Treatment on the Surface Potential Distribution of Monolayer WS ₂ on SiO ₂ /Si and Au Substrates. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701083.	3.7	7
74	3D graphene foam/ZnO nanorods array mixed-dimensional heterostructure for photoelectrochemical biosensing. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 364-369.	6.0	13
75	Electromagnetic Shielding Hybrid Nanogenerator for Health Monitoring and Protection. <i>Advanced Functional Materials</i> , 2018, 28, 1703801.	14.9	178
76	An enzyme cascade-based electrochemical immunoassay using a polydopamine@carbon nanotube nanocomposite for signal amplification. <i>Journal of Materials Chemistry B</i> , 2018, 6, 8180-8187.	5.8	27
77	Walnut Polyphenol Extract Protects against Fenitrothion-Induced Immunotoxicity in Murine Splenic Lymphocytes. <i>Nutrients</i> , 2018, 10, 1838.	4.1	20
78	All-Inorganic Perovskite Quantum Dot@Monolayer MoS ₂ Mixed-Dimensional van der Waals Heterostructure for Ultrasensitive Photodetector. <i>Advanced Science</i> , 2018, 5, 1801219.	11.2	157
79	Evaluating the Stability of Co ₂ P Electrocatalysts in the Hydrogen Evolution Reaction for Both Acidic and Alkaline Electrolytes. <i>ACS Energy Letters</i> , 2018, 3, 1360-1365.	17.4	291
80	Interfacial Charge Behavior Modulation in Perovskite Quantum Dot@Monolayer MoS ₂ 0D@2D Mixed-Dimensional van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1802015.	14.9	107
81	Ultraviolet Detectors Based on Wide Bandgap Semiconductor Nanowire: A Review. <i>Sensors</i> , 2018, 18, 2072.	3.8	222
82	All-Solid-State Supercapacitors Based on Flexible Co ₃ O ₄ Nanoflowers/rGO Nanocomposites. <i>Journal of Electronic Materials</i> , 2018, 47, 5987-5992.	2.2	12
83	An Amphiphobic Hydraulic Triboelectric Nanogenerator for a Self-Cleaning and Self-Charging Power System. <i>Advanced Functional Materials</i> , 2018, 28, 1803117.	14.9	94
84	Pathobiological Pseudohypoxia as a Putative Mechanism Underlying Myelodysplastic Syndromes. <i>Cancer Discovery</i> , 2018, 8, 1438-1457.	9.4	38
85	Uniformly assembled vanadium doped ZnO microflowers/ bacterial cellulose hybrid paper for flexible piezoelectric nanogenerators and self-powered sensors. <i>Nano Energy</i> , 2018, 52, 501-509.	16.0	67
86	Flexible, Cuttable, and Self-Waterproof Bending Strain Sensors Using Microcracked Gold Nanofilms@Paper Substrate. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4151-4158.	8.0	107
87	Harvesting Ambient Vibration Energy over a Wide Frequency Range for Self-Powered Electronics. <i>ACS Nano</i> , 2017, 11, 1728-1735.	14.6	169
88	Self-powered artificial electronic skin for high-resolution pressure sensing. <i>Nano Energy</i> , 2017, 32, 389-396.	16.0	125
89	3D architecture of a graphene/CoMoO ₄ composite for asymmetric supercapacitors usable at various temperatures. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 42-50.	9.4	53
90	Layer Dependence and Light Tuning Surface Potential of 2D MoS ₂ on Various Substrates. <i>Small</i> , 2017, 13, 1603103.	10.0	58

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91	A bio-based coating onto the surface Populus fiber for oil spillage cleanup applications. <i>Industrial Crops and Products</i> , 2017, 98, 38-45.	5.2	18
92	Service Behavior of Multifunctional Triboelectric Nanogenerators. <i>Advanced Materials</i> , 2017, 29, 1606703.	21.0	106
93	V ₂ O ₅ Nanowire Composite Paper as a High-Performance Lithium-Ion Battery Cathode. <i>ACS Omega</i> , 2017, 2, 793-799.	3.5	46
94	Enhanced Efficiency and Stability of Perovskite Solar Cells via Anti-Solvent Treatment in Two-Step Deposition Method. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7224-7231.	8.0	97
95	Polarity-Dependent Piezotronic Effect and Controllable Transport Modulation of ZnO with Multifield Coupled Interface Engineering. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600842.	3.7	12
96	Ultra-thin, transparent and flexible tactile sensors based on graphene films with excellent anti-interference. <i>RSC Advances</i> , 2017, 7, 30506-30512.	3.6	11
97	Poly(4-styrenesulfonate)-induced sulfur vacancy self-healing strategy for monolayer MoS ₂ homojunction photodiode. <i>Nature Communications</i> , 2017, 8, 15881.	12.8	191
98	Carbon Quantum Dots Decorated C ₃ N ₄ /TiO ₂ Heterostructure Nanorod Arrays for Enhanced Photoelectrochemical Performance. <i>Journal of the Electrochemical Society</i> , 2017, 164, H515-H520.	2.9	22
99	Strain modulation on graphene/ZnO nanowire mixed-dimensional van der Waals heterostructure for high-performance photosensor. <i>Nano Research</i> , 2017, 10, 3476-3485.	10.4	41
100	Cactus-like hierarchical nanorod-nanosheet mixed dimensional photoanode for efficient and stable water splitting. <i>Nano Energy</i> , 2017, 35, 189-198.	16.0	76
101	Ultrasensitive and stretchable resistive strain sensors designed for wearable electronics. <i>Materials Horizons</i> , 2017, 4, 502-510.	12.2	206
102	Mapping the scientific research on non-point source pollution: a bibliometric analysis. <i>Environmental Science and Pollution Research</i> , 2017, 24, 4352-4366.	5.3	32
103	Investigation on the broadband electromagnetic wave absorption properties and mechanism of Co ₃ O ₄ -nanosheets/reduced-graphene-oxide composite. <i>Nano Research</i> , 2017, 10, 980-990.	10.4	154
104	A facile method for the preparation of three-dimensional CNT sponge and a nanoscale engineering design for high performance fiber-shaped asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22559-22567.	10.3	37
105	Design and tailoring of patterned ZnO nanostructures for energy conversion applications. <i>Science China Materials</i> , 2017, 60, 793-810.	6.3	34
106	Low-cost highly sensitive strain sensors for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10571-10577.	5.5	21
107	Ultrathin strain-gated field effect transistor based on In-doped ZnO nanobelts. <i>APL Materials</i> , 2017, 5, .	5.1	7
108	Bioinspired stretchable triboelectric nanogenerator as energy-harvesting skin for self-powered electronics. <i>Nano Energy</i> , 2017, 39, 429-436.	16.0	147

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109	Bioinspired Tribotronic Resistive Switching Memory for Self-Powered Memorizing Mechanical Stimuli. ACS Applied Materials & Interfaces, 2017, 9, 43822-43829.	8.0	42
110	One-dimensional ZnO nanostructure-based optoelectronics. Chinese Physics B, 2017, 26, 118102.	1.4	18
111	Integrated hybrid nanogenerator for gas energy recycle and purification. Nano Energy, 2017, 39, 524-531.	16.0	39
112	Effect of carrier screening on ZnO-based resistive switching memory devices. Nano Research, 2017, 10, 77-86.	10.4	23
113	Simulation and structure optimization of triboelectric nanogenerators considering the effects of parasitic capacitance. Nano Research, 2017, 10, 157-171.	10.4	56
114	Recyclable and Green Triboelectric Nanogenerator. Advanced Materials, 2017, 29, 1604961.	21.0	141
115	Genetic and epigenetic susceptibility of airway inflammation to PM2.5 in school children: new insights from quantile regression. Environmental Health, 2017, 16, 88.	4.0	19
116	Analysis of Influencing Factors of Water Footprint Based on the STIRPAT Model: Evidence from the Beijing Agricultural Sector. Water (Switzerland), 2016, 8, 513.	2.7	21
117	Nonenzymatic Glucose Sensor Based on In Situ Reduction of Ni/NiO-Graphene Nanocomposite. Sensors, 2016, 16, 1791.	3.8	66
118	Strain Modulation in Graphene/ZnO Nanorod Film Schottky Junction for Enhanced Photosensing Performance. Advanced Functional Materials, 2016, 26, 1347-1353.	14.9	85
119	High-performance Solar-blind Deep Ultraviolet Photodetector Based on Individual Single-crystalline Zn ₂ GeO ₄ Nanowire. Advanced Functional Materials, 2016, 26, 704-712.	14.9	163
120	3D-Branched ZnO/CdS Nanowire Arrays for Solar Water Splitting and the Service Safety Research. Advanced Energy Materials, 2016, 6, 1501459.	19.5	177
121	Stretchable and Waterproof Self-Charging Power System for Harvesting Energy from Diverse Deformation and Powering Wearable Electronics. ACS Nano, 2016, 10, 6519-6525.	14.6	182
122	A Highly Stretchable ZnO@Fiber-Based Multifunctional Nanosensor for Strain/Temperature/UV Detection. Advanced Functional Materials, 2016, 26, 3074-3081.	14.9	239
123	Valorization of lignin and cellulose in acid-steam-exploded corn stover by a moderate alkaline ethanol post-treatment based on an integrated biorefinery concept. Biotechnology for Biofuels, 2016, 9, 238.	6.2	38
124	Illumination-dependent free carrier screening effect on the performance evolution of ZnO piezotronic strain sensor. Nano Research, 2016, 9, 1091-1100.	10.4	16
125	Impact of insulator layer thickness on the performance of metal-MgO-ZnO tunneling diodes. Nano Research, 2016, 9, 1290-1299.	10.4	16
126	Band alignment engineering for improved performance and stability of ZnFe ₂ O ₄ modified CdS/ZnO nanostructured photoanode for PEC water splitting. Nano Energy, 2016, 24, 25-31.	16.0	196

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127	Electromagnetic wave absorption in reduced graphene oxide functionalized with Fe ₃ O ₄ /Fe nanorings. Nano Research, 2016, 9, 2018-2025.	10.4	161
128	The coupling influence of UV illumination and strain on the surface potential distribution of a single ZnO micro/nano wire. Nano Research, 2016, 9, 2572-2580.	10.4	11
129	High carrier concentration ZnO nanowire arrays for binder-free conductive support of supercapacitors electrodes by Al doping. Journal of Colloid and Interface Science, 2016, 484, 155-161.	9.4	26
130	A rationally designed output current measurement procedure and comprehensive understanding of the output characteristics for piezoelectric nanogenerators. Nano Energy, 2016, 30, 180-186.	16.0	21
131	Enhanced electromechanical performance in metal-oxide ZnO tunneling diodes due to the insulator layers. Inorganic Chemistry Frontiers, 2016, 3, 1130-1136.	6.0	3
132	Fiber-shaped asymmetric supercapacitors with ultrahigh energy density for flexible/wearable energy storage. Journal of Materials Chemistry A, 2016, 4, 17704-17710.	10.3	69
133	Nanopillar Arrayed Triboelectric Nanogenerator as a Self-Powered Sensitive Sensor for a Sleep Monitoring System. ACS Nano, 2016, 10, 8097-8103.	14.6	145
134	Synergistic Effect of Surface Plasmonic particles and Surface Passivation layer on ZnO Nanorods Array for Improved Photoelectrochemical Water Splitting. Scientific Reports, 2016, 6, 29907.	3.3	68
135	Reduced Graphene Oxide Functionalized with Cobalt Ferrite Nanocomposites for Enhanced Efficient and Lightweight Electromagnetic Wave Absorption. Scientific Reports, 2016, 6, 32381.	3.3	52
136	A highly shape-adaptive, stretchable design based on conductive liquid for energy harvesting and self-powered biomechanical monitoring. Science Advances, 2016, 2, e1501624.	10.3	274
137	Band alignment engineering for high-energy-density solid-state asymmetric supercapacitors with TiO ₂ insertion at the ZnO/Ni(OH) ₂ interface. Journal of Materials Chemistry A, 2016, 4, 17981-17987.	10.3	25
138	Self-Powered Photoelectrochemical Biosensor Based on CdS/RGO/ZnO Nanowire Array Heterostructure. Small, 2016, 12, 245-251.	10.0	142
139	Integrated multi-unit transparent triboelectric nanogenerator harvesting rain power for driving electronics. Nano Energy, 2016, 25, 18-25.	16.0	91
140	Flexible and printable paper-based strain sensors for wearable and large-area green electronics. Nanoscale, 2016, 8, 13025-13032.	5.6	154
141	The enhanced performance of piezoelectric nanogenerator via suppressing screening effect with Au particles/ZnO nanoarrays Schottky junction. Nano Research, 2016, 9, 372-379.	10.4	60
142	Novel Piezoelectric Paper-Based Flexible Nanogenerators Composed of BaTiO ₃ Nanoparticles and Bacterial Cellulose. Advanced Science, 2016, 3, 1500257.	11.2	152
143	Improved Photoresponse Performance of Self-Powered ZnO/Spiro-MeOTAD Heterojunction Ultraviolet Photodetector by Piezo-Phototronic Effect. ACS Applied Materials & Interfaces, 2016, 8, 6137-6143.	8.0	92
144	An innovative design of perovskite solar cells with Al ₂ O ₃ inserting at ZnO/perovskite interface for improving the performance and stability. Nano Energy, 2016, 22, 223-231.	16.0	157

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145	Constitutive Modeling of High-Temperature Flow Behavior of an Nb Micro-alloyed Hot Stamping Steel. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 948-959.	2.5	7
146	Influence of carrier concentration on the resistive switching characteristics of a ZnO-based memristor. <i>Nano Research</i> , 2016, 9, 1116-1124.	10.4	35
147	Triboelectricity-assisted transfer of graphene for flexible optoelectronic applications. <i>Nano Research</i> , 2016, 9, 899-907.	10.4	6
148	Temperature-dependent electrochemical capacitive performance of the γ -Fe ₂ O ₃ hollow nanoshuttles as supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 291-296.	9.4	94
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