

Yue Zhang

List of Publications by Year in descending order

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392
papers

20,970
citations

5574

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124
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395
all docs

395
docs citations

395
times ranked

22136
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible and Highly Sensitive Strain Sensors Fabricated by Pencil Drawn for Wearable Monitor. <i>Advanced Functional Materials</i> , 2015, 25, 2395-2401.	14.9	439
2	Fabrication of a High-Brightness Blue-Light-Emitting Diode Using a ZnO Nanowire Array Grown on p-GaN Thin Film. <i>Advanced Materials</i> , 2009, 21, 2767-2770.	21.0	425
3	Stretchable Rubber-Based Triboelectric Nanogenerator and Its Application as Self-Powered Body Motion Sensors. <i>Advanced Functional Materials</i> , 2015, 25, 3688-3696.	14.9	320
4	Toward the Application of High Frequency Electromagnetic Wave Absorption by Carbon Nanostructures. <i>Advanced Science</i> , 2019, 6, 1801057.	11.2	312
5	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
6	A highly shape-adaptive, stretchable design based on conductive liquid for energy harvesting and self-powered biomechanical monitoring. <i>Science Advances</i> , 2016, 2, e1501624.	10.3	274
7	Assembly of Ni(OH) ₂ nanoplates on reduced graphene oxide: a two dimensional nanocomposite for enzyme-free glucose sensing. <i>Journal of Materials Chemistry</i> , 2011, 21, 16949.	6.7	240
8	A Highly Stretchable ZnO@Fiber-Based Multifunctional Nanosensor for Strain/Temperature/UV Detection. <i>Advanced Functional Materials</i> , 2016, 26, 3074-3081.	14.9	239
9	High output piezoelectric nanocomposite generators composed of oriented BaTiO ₃ NPs@PVDF. <i>Nano Energy</i> , 2015, 11, 719-727.	16.0	237
10	A Flexible, Stretchable and Shape-Adaptive Approach for Versatile Energy Conversion and Self-Powered Biomedical Monitoring. <i>Advanced Materials</i> , 2015, 27, 3817-3824.	21.0	227
11	Ultraviolet Detectors Based on Wide Bandgap Semiconductor Nanowire: A Review. <i>Sensors</i> , 2018, 18, 2072.	3.8	222
12	Scanning Probe Study on the Piezotronic Effect in ZnO Nanomaterials and Nanodevices. <i>Advanced Materials</i> , 2012, 24, 4647-4655.	21.0	219
13	Ultrasensitive and stretchable resistive strain sensors designed for wearable electronics. <i>Materials Horizons</i> , 2017, 4, 502-510.	12.2	206
14	Secreted Frizzled-related protein 2 is a procollagen C proteinase enhancer with a role in fibrosis associated with myocardial infarction. <i>Nature Cell Biology</i> , 2009, 11, 46-55.	10.3	205
15	Thermoelectric Nanogenerators Based on Single Sb-Doped ZnO Micro/Nanobelts. <i>ACS Nano</i> , 2012, 6, 6984-6989.	14.6	199
16	Band alignment engineering for improved performance and stability of ZnFe ₂ O ₄ modified CdS/ZnO nanostructured photoanode for PEC water splitting. <i>Nano Energy</i> , 2016, 24, 25-31.	16.0	196
17	Enhanced photoresponse of ZnO nanorods-based self-powered photodetector by piezotronic interface engineering. <i>Nano Energy</i> , 2014, 9, 237-244.	16.0	193
18	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

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19	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
20	Electromagnetic Shielding Hybrid Nanogenerator for Health Monitoring and Protection. Advanced Functional Materials, 2018, 28, 1703801.	14.9	178
21	3D-Branched ZnO/CdS Nanowire Arrays for Solar Water Splitting and the Service Safety Research. Advanced Energy Materials, 2016, 6, 1501459.	19.5	177
22	Self-Powered Magnetic Sensor Based on a Triboelectric Nanogenerator. ACS Nano, 2012, 6, 10378-10383.	14.6	174
23	Harvesting Ambient Vibration Energy over a Wide Frequency Range for Self-Powered Electronics. ACS Nano, 2017, 11, 1728-1735.	14.6	169
24	The octa-twin tetraleg ZnO nanostructures. Solid State Communications, 2003, 126, 629-633.	1.9	167
25	Recent Advances in Triboelectric Nanogenerator-Based Health Monitoring. Advanced Functional Materials, 2019, 29, 1808849.	14.9	167
26	Highly transparent triboelectric nanogenerator for harvesting water-related energy reinforced by antireflection coating. Scientific Reports, 2015, 5, 9080.	3.3	165
27	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
28	Self-Powered Trajectory, Velocity, and Acceleration Tracking of a Moving Object/Body using a Triboelectric Sensor. Advanced Functional Materials, 2014, 24, 7488-7494.	14.9	161
29	Electromagnetic wave absorption in reduced graphene oxide functionalized with Fe ₃ O ₄ /Fe nanorings. Nano Research, 2016, 9, 2018-2025.	10.4	161
30	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
31	All-Inorganic Perovskite Quantum Dot-Monolayer MoS ₂ Mixed-Dimensional van der Waals Heterostructure for Ultrasensitive Photodetector. Advanced Science, 2018, 5, 1801219.	11.2	157
32	Directed Growth and Microwave Absorption Property of Crossed ZnO Netlike Micro-/Nanostructures. Journal of Physical Chemistry C, 2010, 114, 10088-10091.	3.1	154
33	Flexible and printable paper-based strain sensors for wearable and large-area green electronics. Nanoscale, 2016, 8, 13025-13032.	5.6	154
34	Investigation on the broadband electromagnetic wave absorption properties and mechanism of Co ₃ O ₄ -nanosheets/reduced-graphene-oxide composite. Nano Research, 2017, 10, 980-990.	10.4	154
35	Interface Engineering for Modulation of Charge Carrier Behavior in ZnO Photoelectrochemical Water Splitting. Advanced Functional Materials, 2019, 29, 1808032.	14.9	153
36	Flexible piezoelectric nanogenerators based on a fiber/ZnO nanowires/paper hybrid structure for energy harvesting. Nano Research, 2014, 7, 917-928.	10.4	152

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37	Novel Piezoelectric Paper-Based Flexible Nanogenerators Composed of BaTiO ₃ Nanoparticles and Bacterial Cellulose. <i>Advanced Science</i> , 2016, 3, 1500257.	11.2	152
38	Electronic Structure Engineering of Cu ₂ O Film/ZnO Nanorods Array All-Oxide p-n Heterostructure for Enhanced Photoelectrochemical Property and Self-powered Biosensing Application. <i>Scientific Reports</i> , 2015, 5, 7882.	3.3	151
39	Structure and photocatalytic activity of Ni-doped ZnO nanorods. <i>Materials Research Bulletin</i> , 2011, 46, 1207-1210.	5.2	149
40	Size Dependence of Dielectric Constant in a Single Pencil-Like ZnO Nanowire. <i>Nano Letters</i> , 2012, 12, 1919-1922.	9.1	147
41	Bioinspired stretchable triboelectric nanogenerator as energy-harvesting skin for self-powered electronics. <i>Nano Energy</i> , 2017, 39, 429-436.	16.0	147
42	Nanopillar Arrayed Triboelectric Nanogenerator as a Self-Powered Sensitive Sensor for a Sleep Monitoring System. <i>ACS Nano</i> , 2016, 10, 8097-8103.	14.6	145
43	Self-Powered Photoelectrochemical Biosensor Based on CdS/RGO/ZnO Nanowire Array Heterostructure. <i>Small</i> , 2016, 12, 245-251.	10.0	142
44	Recyclable and Green Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2017, 29, 1604961.	21.0	141
45	Self-powered ultraviolet photodetector based on a single Sb-doped ZnO nanobelt. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	139
46	Bicrystalline zinc oxide nanowires. <i>Chemical Physics Letters</i> , 2003, 375, 96-101.	2.6	137
47	Enhanced photoelectrochemical property of ZnO nanorods array synthesized on reduced graphene oxide for self-powered biosensing application. <i>Biosensors and Bioelectronics</i> , 2015, 64, 499-504.	10.1	133
48	Green hybrid power system based on triboelectric nanogenerator for wearable/portable electronics. <i>Nano Energy</i> , 2019, 55, 151-163.	16.0	129
49	Self-Powered UV Photosensor Based on PEDOT:PSS/ZnO Micro/Nanowire with Strain-Modulated Photoresponse. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3671-3676.	8.0	128
50	Self-powered artificial electronic skin for high-resolution pressure sensing. <i>Nano Energy</i> , 2017, 32, 389-396.	16.0	125
51	Effect of Nb on hydrogen-induced delayed fracture in high strength hot stamping steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 136-143.	5.6	121
52	Electret Film-Enhanced Triboelectric Nanogenerator Matrix for Self-Powered Instantaneous Tactile Imaging. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3680-3688.	8.0	118
53	Graphene-Based Mixed-Dimensional van der Waals Heterostructures for Advanced Optoelectronics. <i>Advanced Materials</i> , 2019, 31, e1806411.	21.0	115
54	Au-Embedded ZnO/NiO Hybrid with Excellent Electrochemical Performance as Advanced Electrode Materials for Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2480-2485.	8.0	114

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55	Carbon fiber@ZnO nanowire hybrid structures for flexible and adaptable strain sensors. <i>Nanoscale</i> , 2013, 5, 12350.	5.6	112
56	Development, applications, and future directions of triboelectric nanogenerators. <i>Nano Research</i> , 2018, 11, 2951-2969.	10.4	112
57	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
58	Interfacial Charge Behavior Modulation in Perovskite Quantum Dot@Monolayer MoS ₂ @2D Mixed-Dimensional van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1802015.	14.9	107
59	Service Behavior of Multifunctional Triboelectric Nanogenerators. <i>Advanced Materials</i> , 2017, 29, 1606703.	21.0	106
60	Piezotronic Interface Engineering on ZnO/Au-Based Schottky Junction for Enhanced Photoresponse of a Flexible Self-Powered UV Detector. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14116-14122.	8.0	105
61	Design of sandwich-structured ZnO/ZnS/Au photoanode for enhanced efficiency of photoelectrochemical water splitting. <i>Nano Research</i> , 2015, 8, 2891-2900.	10.4	104
62	X-ray photoelectron spectroscopic studies of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} cathode for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 435-439.	7.1	102
63	High On/Off Ratio Improvement of ZnO-Based Forming-Free Memristor by Surface Hydrogen Annealing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7382-7388.	8.0	102
64	Root-specific NF- κ B family transcription factor, <i>PdNF1</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
65	Photoelectrochemical performance enhancement of ZnO photoanodes from ZnIn ₂ S ₄ nanosheets coating. <i>Nano Energy</i> , 2015, 14, 392-400.	16.0	98
66	A self-powered ultraviolet photodetector based on solution-processed p-NiO/n-ZnO nanorod array heterojunction. <i>RSC Advances</i> , 2015, 5, 5976-5981.	3.6	97
67	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
68	In situ mechanical properties of individual ZnO nanowires and the mass measurement of nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L179-L184.	1.8	96
69	Performance and service behavior in 1-D nanostructured energy conversion devices. <i>Nano Energy</i> , 2015, 14, 30-48.	16.0	96
70	Temperature-dependent electrochemical capacitive performance of the δ -Fe ₂ O ₃ hollow nanoshuttles as supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 291-296.	9.4	94
71	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
72	Strain-Engineered van der Waals Interfaces of Mixed-Dimensional Heterostructure Arrays. <i>ACS Nano</i> , 2019, 13, 9057-9066.	14.6	94

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73	Defect-Engineered Atomically Thin MoS ₂ Homogeneous Electronics for Logic Inverters. <i>Advanced Materials</i> , 2020, 32, e1906646.	21.0	94
74	Enzyme-coated single ZnO nanowire FET biosensor for detection of uric acid. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 22-27.	7.8	93
75	Enhanced photoresponse of Cu ₂ O/ZnO heterojunction with piezo-modulated interface engineering. <i>Nano Research</i> , 2014, 7, 860-868.	10.4	93
76	Kelvin probe force microscopy for perovskite solar cells. <i>Science China Materials</i> , 2019, 62, 776-789.	6.3	93
77	Improved Photoresponse Performance of Self-Powered ZnO/Spiro-MeOTAD Heterojunction Ultraviolet Photodetector by Piezo-Phototronic Effect. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6137-6143.	8.0	92
78	Self-powered photoelectrochemical biosensing platform based on Au NPs@ZnO nanorods array. <i>Nano Research</i> , 2016, 9, 344-352.	10.4	92
79	Integrated multi-unit transparent triboelectric nanogenerator harvesting rain power for driving electronics. <i>Nano Energy</i> , 2016, 25, 18-25.	16.0	91
80	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
81	Oxygen reduction mechanism at Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ cathode for solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1008-1014.	7.1	87
82	Gold nanoparticle/ZnO nanorod hybrids for enhanced reactive oxygen species generation and photodynamic therapy. <i>Nano Research</i> , 2015, 8, 2004-2014.	10.4	85
83	Strain Modulation in Graphene/ZnO Nanorod Film Schottky Junction for Enhanced Photosensing Performance. <i>Advanced Functional Materials</i> , 2016, 26, 1347-1353.	14.9	85
84	ZnO nanowire array ultraviolet photodetectors with self-powered properties. <i>Current Applied Physics</i> , 2013, 13, 165-169.	2.4	81
85	Formation of double-side teathed nanocombs of ZnO and self-catalysis of Zn-terminated polar surface. <i>Chemical Physics Letters</i> , 2006, 417, 358-362.	2.6	80
86	Strain Engineering in 2D Material-Based Flexible Optoelectronics. <i>Small Methods</i> , 2021, 5, e2000919.	8.6	80
87	Structure effect on graphene-modified enzyme electrode glucose sensors. <i>Biosensors and Bioelectronics</i> , 2014, 52, 281-287.	10.1	78
88	Field Emission of a Single In-Doped ZnO Nanowire. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9039-9043.	3.1	76
89	Functional triboelectric generator as self-powered vibration sensor with contact mode and non-contact mode. <i>Nano Energy</i> , 2015, 14, 209-216.	16.0	76
90	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

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91	Fibronectin Binds and Enhances the Activity of Bone Morphogenetic Protein 1. <i>Journal of Biological Chemistry</i> , 2009, 284, 25879-25888.	3.4	74
92	Three-Dimensional Ordered ZnO/Cu ₂ O Nanoheterojunctions for Efficient Metal-Oxide Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3216-3223.	8.0	74
93	Improvement of the performance of dye-sensitized solar cells using Sn-doped ZnO nanoparticles. <i>Journal of Power Sources</i> , 2010, 195, 5806-5809.	7.8	73
94	Lignin-phenol-formaldehyde resin adhesives prepared with biorefinery technical lignins. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	72
95	The ability of MLL to bind RUNX1 and methylate H3K4 at PU.1 regulatory regions is impaired by MDS/AML-associated RUNX1/AML1 mutations. <i>Blood</i> , 2011, 118, 6544-6552.	1.4	71
96	A three-dimensional reticulate CNT-aerogel for a high mechanical flexibility fiber supercapacitor. <i>Nanoscale</i> , 2018, 10, 9360-9368.	5.6	71
97	Improved glucose electrochemical biosensor by appropriate immobilization of nano-ZnO. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 168-172.	5.0	70
98	Enhanced Performance of ZnO Piezotronic Pressure Sensor through Electron-Tunneling Modulation of MgO Nanolayer. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1602-1607.	8.0	70
99	Investigation on the optimization, design and microwave absorption properties of reduced graphene oxide/tetrapod-like ZnO composites. <i>RSC Advances</i> , 2015, 5, 10197-10203.	3.6	70
100	ZnO nanostructures in enzyme biosensors. <i>Science China Materials</i> , 2015, 58, 60-76.	6.3	70
101	Fiber-shaped asymmetric supercapacitors with ultrahigh energy density for flexible/wearable energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17704-17710.	10.3	69
102	Self-Healing Originated van der Waals Homojunctions with Strong Interlayer Coupling for High-Performance Photodiodes. <i>ACS Nano</i> , 2019, 13, 3280-3291.	14.6	69
103	Morphology, structures and properties of ZnO nanobelts fabricated by Zn-powder evaporation without catalyst at lower temperature. <i>Journal of Materials Science</i> , 2006, 41, 3057-3062.	3.7	68
104	Synergistic Effect of Surface Plasmonic particles and Surface Passivation layer on ZnO Nanorods Array for Improved Photoelectrochemical Water Splitting. <i>Scientific Reports</i> , 2016, 6, 29907.	3.3	68
105	Phase reconfiguration of multivalent nickel sulfides in hydrogen evolution. <i>Energy and Environmental Science</i> , 2022, 15, 633-644.	30.8	68
106	A highly sensitive electrochemical biosensor based on zinc oxide nanotetrapods for L-lactic acid detection. <i>Nanoscale</i> , 2012, 4, 3438.	5.6	67
107	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
108	Nonenzymatic Glucose Sensor Based on In Situ Reduction of Ni/NiO-Graphene Nanocomposite. <i>Sensors</i> , 2016, 16, 1791.	3.8	66

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109	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
110	Highly sensitive uric acid biosensor based on individual zinc oxide micro/nanowires. <i>Mikrochimica Acta</i> , 2013, 180, 759-766.	5.0	65
111	Controllable fabrication and electromechanical characterization of single crystalline Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	63
112	Self-Recovering Triboelectric Nanogenerator as Active Multifunctional Sensors. <i>Advanced Functional Materials</i> , 2015, 25, 6489-6494.	14.9	63
113	Emerging Conductive Atomic Force Microscopy for Metal Halide Perovskite Materials and Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903922.	19.5	63
114	In Situ Transmission Electron Microscopy Investigation on Fatigue Behavior of Single ZnO Wires under High-Cycle Strain. <i>Nano Letters</i> , 2014, 14, 480-485.	9.1	62
115	Microwave absorption properties of carbon nanotubes and tetrapod-shaped ZnO nanostructures composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 175, 81-85.	3.5	61
116	Highly efficient piezotronic strain sensors with symmetrical Schottky contacts on the monopolar surface of ZnO nanobelts. <i>Nanoscale</i> , 2015, 7, 1796-1801.	5.6	60
117	The enhanced performance of piezoelectric nanogenerator via suppressing screening effect with Au particles/ZnO nanoarrays Schottky junction. <i>Nano Research</i> , 2016, 9, 372-379.	10.4	60
118	Synthesis and Characterization of Sb-Doped ZnO Nanobelts with Single-Side Zigzag Boundaries. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17916-17919.	3.1	59
119	Oxidation of zirconium diboride-silicon carbide ceramics under an oxygen partial pressure of 200 Pa: Formation of zircon. <i>Corrosion Science</i> , 2010, 52, 3297-3303.	6.6	59
120	Layer Dependence and Light Tuning Surface Potential of 2D MoS ₂ on Various Substrates. <i>Small</i> , 2017, 13, 1603103.	10.0	58
121	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
122	Functional nanogenerators as vibration sensors enhanced by piezotronic effects. <i>Nano Research</i> , 2014, 7, 190-198.	10.4	56
123	Simulation and structure optimization of triboelectric nanogenerators considering the effects of parasitic capacitance. <i>Nano Research</i> , 2017, 10, 157-171.	10.4	56
124	High-performance piezoelectric gate diode of a single polar-surface dominated ZnO nanobelt. <i>Nanotechnology</i> , 2009, 20, 125201.	2.6	55
125	Disordered epigenetic regulation in MLL-related leukemia. <i>International Journal of Hematology</i> , 2012, 96, 428-437.	1.6	55
126	A self-powered ultraviolet detector based on a single ZnO microwire/p-Si film with double heterojunctions. <i>Nanoscale</i> , 2014, 6, 6025-6029.	5.6	55

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127	Double-Shelled Co ₃ O ₄ /C Nanocages Enabling Polysulfides Adsorption for High-Performance Lithium-Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 8153-8162.	5.1	55
128	High Performance Indium-Doped ZnO Gas Sensor. Journal of Nanomaterials, 2015, 2015, 1-6.	2.7	54
129	Ultralight, self-powered and self-adaptive motion sensor based on triboelectric nanogenerator for perceptual layer application in Internet of things. Nano Energy, 2018, 48, 312-319.	16.0	54
130	3D architecture of a graphene/CoMoO ₄ composite for asymmetric supercapacitors usable at various temperatures. Journal of Colloid and Interface Science, 2017, 493, 42-50.	9.4	53
131	Flexible piezoresistive strain sensor based on single Sb-doped ZnO nanobelts. Applied Physics Letters, 2010, 97, 223107.	3.3	52
132	Reduced Graphene Oxide Functionalized with Cobalt Ferrite Nanocomposites for Enhanced Efficient and Lightweight Electromagnetic Wave Absorption. Scientific Reports, 2016, 6, 32381.	3.3	52
133	Self-powered ultrasensitive pulse sensors for noninvasive multi-indicators cardiovascular monitoring. Nano Energy, 2021, 81, 105614.	16.0	52
134	ZnO Nanotubes Grown at Low Temperature Using Ga as Catalysts and Their Enhanced Photocatalytic Activities. Journal of Physical Chemistry C, 2009, 113, 10379-10383.	3.1	51
135	Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ nanopowders prepared by glycine-nitrate process for solid oxide fuel cell cathode. Journal of Alloys and Compounds, 2008, 453, 418-422.	5.5	50
136	Raman spectra and photoluminescence properties of In-doped ZnO nanostructures. Materials Letters, 2010, 64, 569-572.	2.6	50
137	<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> . New Phytologist, 2021, 230, 1868-1882.	7.3	50
138	Tumbler-shaped hybrid triboelectric nanogenerators for amphibious self-powered environmental monitoring. Nano Energy, 2020, 76, 104960.	16.0	49
139	Microwave absorption properties of carbon black and tetrapod-like ZnO whiskers composites. Applied Surface Science, 2013, 286, 7-11.	6.1	48
140	Self-powered ultraviolet photodetectors based on selectively grown ZnO nanowire arrays with thermal tuning performance. Physical Chemistry Chemical Physics, 2014, 16, 9525.	2.8	48
141	Structure and photoluminescence of S-doped ZnO nanorod arrays. Materials Letters, 2009, 63, 444-446.	2.6	47
142	ZnO nanotetrapod network as the adsorption layer for the improvement of glucose detection via multiterminal electron-exchange. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 361, 169-173.	4.7	47
143	V ₂ O ₅ Nanowire Composite Paper as a High-Performance Lithium-Ion Battery Cathode. ACS Omega, 2017, 2, 793-799.	3.5	46
144	Oxidation behaviour of zirconium diboride-silicon carbide ceramic composites under low oxygen partial pressure. Corrosion Science, 2011, 53, 3742-3746.	6.6	45

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145	Simple fabrication of a ZnO nanorod array UV detector with a high performance. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 61, 180-184.	2.7	45
146	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
147	Atomic-Thin ZnO Sheet for Visible-Blind Ultraviolet Photodetection. <i>Small</i> , 2020, 16, e2005520.	10.0	45
148	Longitudinal effects of air pollution on exhaled nitric oxide: the Children's Health Study. <i>Occupational and Environmental Medicine</i> , 2014, 71, 507-513.	2.8	44
149	Large-scale patterned ZnO nanorod arrays for efficient photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2015, 339, 122-127.	6.1	44
150	Transverse piezoelectric field-effect transistor based on single ZnO nanobelts. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12415.	2.8	43
151	Bioinspired Tribotronic Resistive Switching Memory for Self-Powered Memorizing Mechanical Stimuli. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43822-43829.	8.0	42
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