

# Zhiyong Fan

## List of Publications by Year in descending order

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Version: 2024-02-01

226  
papers

23,309  
citations

5896

81  
h-index

8396

147  
g-index

232  
all docs

232  
docs citations

232  
times ranked

26044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-powered and wearable biosensors for healthcare. <i>Materials Today Energy</i> , 2022, 23, 100900.	4.7	39
2	A biomimetic approach to evaluate mineralization of bioactive glass-loaded resin composites. <i>Journal of Prosthodontic Research</i> , 2022, 66, 572-581.	2.8	10
3	Substantial Improvement of Operating Stability by Strengthening Metal-Halogen Bonds in Halide Perovskites. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	16
4	Large-scale planar and spherical light-emitting diodes based on arrays of perovskite quantum wires. <i>Nature Photonics</i> , 2022, 16, 284-290.	31.4	56
5	Vertical Heterogeneous Integration of Metal Halide Perovskite Quantum-Wires/Nanowires for Flexible Narrowband Photodetectors. <i>Nano Letters</i> , 2022, 22, 3062-3070.	9.1	18
6	Schottky-Contacted WSe <sub>2</sub> Hot-Electron Photodetectors with Fast Response and High Sensitivity. <i>ACS Photonics</i> , 2022, 9, 132-137.	6.6	13
7	Monolayer WS <sub>2</sub> Lateral Homosuperlattices with Two-dimensional Periodic Localized Photoluminescence. <i>ACS Nano</i> , 2022, 16, 597-603.	14.6	7
8	Next-generation machine vision systems incorporating two-dimensional materials: Progress and perspectives. <i>Informa Mater</i> , 2022, 4, .	17.3	58
9	Strongly Quantum-Confined Perovskite Nanowire Arrays for Color-Tunable Blue-Light-Emitting Diodes. <i>ACS Nano</i> , 2022, 16, 8388-8398.	14.6	19
10	Image processing with a multi-level ultra-fast three dimensionally integrated perovskite nanowire array. <i>Nanoscale Horizons</i> , 2022, 7, 759-769.	8.0	5
11	Robust Lead-Free Perovskite Nanowire Array-Based Artificial Synapses Exemplifying Gestalt Principle of Closure via a Letter Recognition Scheme. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	5
12	Energy Regulation in White-Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2022, 7, 2173-2188.	17.4	26
13	Programmable Nanoarchitectonics of Pore Array for Electronic-Nose-Based Early Disease Diagnose. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 4514-4520.	3.0	1
14	Halide-exchanged perovskite photodetectors for wearable visible-blind ultraviolet monitoring. <i>Nano Energy</i> , 2022, 100, 107516.	16.0	33
15	Microheater Integrated Nanotube Array Gas Sensor for Parts-Per-Trillion Level Gas Detection and Single Sensor-Based Gas Discrimination. <i>ACS Nano</i> , 2022, 16, 10968-10978.	14.6	29
16	A Wearable Nutrition Tracker. <i>Advanced Materials</i> , 2021, 33, e2006444.	21.0	70
17	High output achieved by sliding electrification of an electrospun nano-grating. <i>Nanoscale</i> , 2021, 13, 17417-17427.	5.6	12
18	Optically tunable ultra-fast resistive switching in lead-free methyl-ammonium bismuth iodide perovskite films. <i>Nanoscale</i> , 2021, 13, 6184-6191.	5.6	21

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19	Polarization-Resolved Broadband MoS <sub>2</sub> /Black Phosphorus/MoS <sub>2</sub> Optoelectronic Memory with Ultralong Retention Time and Ultrahigh Switching Ratio. <i>Advanced Functional Materials</i> , 2021, 31, 2100781.	14.9	33
20	A Design of Horizontal Perovskite Nanowire LED for Better Light Extraction. , 2021, , .		1
21	Opto-Electric resistive switching and synaptic emulation in lead-free perovskite film. , 2021, , .		0
22	Wireless Self-Powered High-Performance Integrated Nanostructured-Gas-Sensor Network for Future Smart Homes. <i>ACS Nano</i> , 2021, 15, 7659-7667.	14.6	90
23	Single electrode piezoelectric nanogenerator for intelligent passive daytime radiative cooling. <i>Nano Energy</i> , 2021, 82, 105695.	16.0	64
24	Moth eye-inspired highly efficient, robust, and neutral-colored semitransparent perovskite solar cells for building-integrated photovoltaics. <i>EcoMat</i> , 2021, 3, e12117.	11.9	28
25	Down-Scalable and Ultra-fast Memristors with Ultra-high Density Three-Dimensional Arrays of Perovskite Quantum Wires. <i>Nano Letters</i> , 2021, 21, 5036-5044.	9.1	53
26	MoS <sub>2</sub> Homojunctions Transistors Enabled by Dimension Tailoring Strategy. <i>Advanced Electronic Materials</i> , 2021, 7, 2100703.	5.1	5
27	Three-dimensional perovskite nanowire array-based ultrafast resistive RAM with ultralong data retention. <i>Science Advances</i> , 2021, 7, eabg3788.	10.3	29
28	Design of a Horizontally Aligned Perovskite Nanowire LED With Improved Light Extraction. <i>IEEE Journal of the Electron Devices Society</i> , 2021, 9, 1215-1221.	2.1	2
29	Substitutionally Doped MoSe <sub>2</sub> for High-Performance Electronics and Optoelectronics. <i>Small</i> , 2021, 17, e2102855.	10.0	24
30	Preface to the Special Issue on Flexible Energy Devices. <i>Journal of Semiconductors</i> , 2021, 42, 100101.	3.7	9
31	Recent progress of efficient flexible solar cells based on nanostructures. <i>Journal of Semiconductors</i> , 2021, 42, 101604.	3.7	7
32	Flexible Quasi-2D Perovskite/IGZO Phototransistors for Ultrasensitive and Broadband Photodetection. <i>Advanced Materials</i> , 2020, 32, e1907527.	21.0	88
33	Vapor phase fabrication of three-dimensional arrayed Bi <sub>2</sub> nanosheets for cost-effective solar cells. <i>Informa-Materials</i> , 2020, 2, 975-983.	17.3	20
34	Cost-Effective and Semi-Transparent PbS Quantum Dot Solar Cells Using Copper Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 818-825.	8.0	23
35	A non-toxic triboelectric nanogenerator for baby care applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22745-22753.	10.3	36
36	A nanostructured anti-biofilm surface widens the efficacy against spindle-shaped and chain-forming rod-like bacteria. <i>Nanoscale</i> , 2020, 12, 18864-18874.	5.6	21

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37	Scalable All-Evaporation Fabrication of Efficient Light-Emitting Diodes with Hybrid 2D-3D Perovskite Nanostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2002913.	14.9	40
38	Anisotropic Triboelectric Nanogenerator Based on Ordered Electrospinning. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46205-46211.	8.0	47
39	A biomimetic eye with a hemispherical perovskite nanowire array retina. <i>Nature</i> , 2020, 581, 278-282.	27.8	392
40	Recent Progress on Semi-transparent Perovskite Solar Cell for Building-integrated Photovoltaics. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 366-376.	2.6	16
41	Light Out-Coupling Management in Perovskite LEDs-What Can We Learn from the Past?. <i>Advanced Functional Materials</i> , 2020, 30, 2002570.	14.9	52
42	Anisotropic nanogenerator for anticounterfeiting and information encrypted transmission. <i>Nano Energy</i> , 2020, 71, 104572.	16.0	27
43	Three-Dimensional Perovskite Nanophotonic Wire Array-Based Light-Emitting Diodes with Significantly Improved Efficiency and Stability. <i>ACS Nano</i> , 2020, 14, 1577-1585.	14.6	57
44	Wireless Single-Electrode Self-Powered Piezoelectric Sensor for Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8288-8295.	8.0	70
45	Recent Progress on Interface Engineering for High-Performance, Stable Perovskites Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000118.	3.7	34
46	Wearable Sweat Band for Noninvasive Levodopa Monitoring. <i>Nano Letters</i> , 2019, 19, 6346-6351.	9.1	121
47	Current progress in developing metal oxide nanoarrays-based photoanodes for photoelectrochemical water splitting. <i>Science Bulletin</i> , 2019, 64, 1348-1380.	9.0	101
48	Sliding non-contact inductive nanogenerator. <i>Nano Energy</i> , 2019, 63, 103878.	16.0	23
49	Facile and Efficient Atomic Hydrogenation Enabled Black TiO <sub>2</sub> with Enhanced Photo-Electrochemical Activity via a Favorably Low-Energy Barrier Pathway. <i>Advanced Energy Materials</i> , 2019, 9, 1900725.	19.5	21
50	A Fully Integrated and Self-Powered Smartwatch for Continuous Sweat Glucose Monitoring. <i>ACS Sensors</i> , 2019, 4, 1925-1933.	7.8	184
51	Multifunctional Optoelectronic Device Based on an Asymmetric Active Layer Structure. <i>Advanced Functional Materials</i> , 2019, 29, 1807894.	14.9	30
52	A calibration-free self-powered sensor for vital sign monitoring and finger tap communication based on wearable triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 58, 536-542.	16.0	121
53	Porous Enzymatic Membrane for Nanotextured Glucose Sweat Sensors with High Stability toward Reliable Noninvasive Health Monitoring. <i>Advanced Functional Materials</i> , 2019, 29, 1902521.	14.9	120
54	Room-Temperature Sputtered SnO <sub>2</sub> as Robust Electron Transport Layer for Air-Stable and Efficient Perovskite Solar Cells on Rigid and Flexible Substrates. <i>Scientific Reports</i> , 2019, 9, 6963.	3.3	57

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55	Highly efficient and stable inverted perovskite solar cells using down-shifting quantum dots as a light management layer and moisture-assisted film growth. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14753-14760.	10.3	67
56	Multifunctional Optoelectronic Devices: Multifunctional Optoelectronic Device Based on an Asymmetric Active Layer Structure ( <i>Adv. Funct. Mater.</i> 17/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970114.	14.9	3
57	Efficient Mixed-Cation Mixed-Halide Perovskite Solar Cells by All-Vacuum Sequential Deposition Using Metal Oxide Electron Transport Layer. <i>Solar Rrl</i> , 2019, 3, 1900050.	5.8	31
58	Large-scale, adhesive-free and omnidirectional 3D nanocone anti-reflection films for high performance photovoltaics. <i>Journal of Semiconductors</i> , 2019, 40, 042601.	3.7	8
59	Increasing Photoluminescence Quantum Yield by Nanophotonic Design of Quantum-Confined Halide Perovskite Nanowire Arrays. <i>Nano Letters</i> , 2019, 19, 2850-2857.	9.1	67
60	Efficient metal halide perovskite light-emitting diodes with significantly improved light extraction on nanophotonic substrates. <i>Nature Communications</i> , 2019, 10, 727.	12.8	179
61	Smart gas sensor arrays powered by artificial intelligence. <i>Journal of Semiconductors</i> , 2019, 40, 111601.	3.7	59
62	High performance charge-transfer induced homojunction photodetector based on ultrathin ZnO nanosheet. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	21
63	Printable Fabrication of a Fully Integrated and Self-Powered Sensor System on Plastic Substrates. <i>Advanced Materials</i> , 2019, 31, e1804285.	21.0	148
64	Palladium Diselenide Long-Wavelength Infrared Photodetector with High Sensitivity and Stability. <i>ACS Nano</i> , 2019, 13, 2511-2519.	14.6	198
65	Low-cost, flexible, disinfectant-free and regular-array three-dimensional nanopyramid antibacterial films for clinical applications. <i>Nanoscale</i> , 2018, 10, 10436-10442.	5.6	24
66	Recent progress on printable power supply devices and systems with nanomaterials. <i>Nano Research</i> , 2018, 11, 3065-3087.	10.4	60
67	Stacking-mode confined growth of 2H-MoTe <sub>2</sub> /MoS <sub>2</sub> bilayer heterostructures for UV-vis-IR photodetectors. <i>Nano Energy</i> , 2018, 49, 200-208.	16.0	96
68	A self-powered flexible hybrid piezoelectric-pyroelectric nanogenerator based on non-woven nanofiber membranes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3500-3509.	10.3	161
69	Large-Grain Tin-Rich Perovskite Films for Efficient Solar Cells via Metal Alloying Technique. <i>Advanced Materials</i> , 2018, 30, 1705998.	21.0	116
70	Ferroelectric Localized Field-Enhanced ZnO Nanosheet Ultraviolet Photodetector with High Sensitivity and Low Dark Current. <i>Small</i> , 2018, 14, e1800492.	10.0	85
71	Nanotextured Spikes of $\text{Fe}_2\text{O}_3/\text{NiFe}_2\text{O}_4$ Composite for Efficient Photoelectrochemical Oxidation of Water. <i>Langmuir</i> , 2018, 34, 3555-3564.	3.5	31
72	Surface recombination velocity of methylammonium lead bromide nanowires in anodic aluminium oxide templates. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 723-728.	3.4	7

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73	Ultra-Low-Power Smart Electronic Nose System Based on Three-Dimensional Tin Oxide Nanotube Arrays. ACS Nano, 2018, 12, 6079-6088.	14.6	88
74	Significantly improved black phase stability of FAPbI <sub>3</sub> nanowires via spatially confined vapor phase growth in nanoporous templates. Nanoscale, 2018, 10, 15164-15172.	5.6	61
75	Bionic Single-Electrode Electronic Skin Unit Based on Piezoelectric Nanogenerator. ACS Nano, 2018, 12, 8588-8596.	14.6	226
76	Efficient and Flexible Thin Film Amorphous Silicon Solar Cells on Nanotextured Polymer Substrate Using Sol-gel Based Nanoimprinting Method. Advanced Functional Materials, 2017, 27, 1604720.	14.9	53
77	High-quality organohalide lead perovskite films fabricated by layer-by-layer alternating vacuum deposition for high efficiency photovoltaics. Materials Chemistry Frontiers, 2017, 1, 1520-1525.	5.9	33
78	Fabrication of stable organometallic halide perovskite NWs based optoelectronic devices. Science Bulletin, 2017, 62, 645-647.	9.0	18
79	Low-Cost Energy-Efficient 3-D Nano-Spikes-Based Electric Cell Lysis Chips. Journal of Microelectromechanical Systems, 2017, 26, 910-920.	2.5	7
80	Scalable Indium Phosphide Thin-Film Nanophotonics Platform for Photovoltaic and Photoelectrochemical Devices. ACS Nano, 2017, 11, 5113-5119.	14.6	30
81	Organic Halides and Nanocone Plastic Structures Enhance the Energy Conversion Efficiency and Self-Cleaning Ability of Colloidal Quantum Dot Photovoltaic Devices. Journal of Physical Chemistry C, 2017, 121, 9757-9765.	3.1	22
82	Solar Cells: Efficient and Flexible Thin Film Amorphous Silicon Solar Cells on Nanotextured Polymer Substrate Using Sol-gel Based Nanoimprinting Method (Adv. Funct. Mater. 13/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
83	A non-catalytic vapor growth regime for organohalide perovskite nanowires using anodic aluminum oxide templates. Nanoscale, 2017, 9, 5828-5834.	5.6	53
84	ZnO Quantum Dot Decorated Zn <sub>2</sub> SnO <sub>4</sub> Nanowire Heterojunction Photodetectors with Drastic Performance Enhancement and Flexible Ultraviolet Image Sensors. ACS Nano, 2017, 11, 4067-4076.	14.6	190
85	Lead-Free Perovskite Nanowire Array Photodetectors with Drastically Improved Stability in Nanoengineering Templates. Nano Letters, 2017, 17, 523-530.	9.1	232
86	Electric field enhanced 3D scalable low-voltage nano-spike electroporation system. Sensors and Actuators A: Physical, 2017, 255, 10-20.	4.1	13
87	Perovskite Nanowire Extrusion. Nano Letters, 2017, 17, 6557-6563.	9.1	42
88	Printable Fabrication of Nanocoral-Structured Electrodes for High-Performance Flexible and Planar Supercapacitor with Artistic Design. Advanced Materials, 2017, 29, 1701736.	21.0	125
89	Accelerating ion diffusion with unique three-dimensionally interconnected nanopores for self-membrane high-performance pseudocapacitors. Nanoscale, 2017, 9, 18311-18317.	5.6	12
90	Breath Level Acetone Discrimination Through Temperature Modulation of a Hierarchical ZnO Gas Sensor. , 2017, 1, 1-4.		12

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91	Spray Pyrolysis Deposition of ZnFe <sub>2</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> Composite Thin Films on Hierarchical 3-D Nanospikes for Efficient Photoelectrochemical Oxidation of Water. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18360-18368.	3.1	48
92	Hybrid WSe <sub>2</sub> /In <sub>2</sub> O <sub>3</sub> Phototransistor with Ultrahigh Detectivity by Efficient Suppression of Dark Currents. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34489-34496.	8.0	47
93	All Inorganic Cesium Lead Iodide Perovskite Nanowires with Stabilized Cubic Phase at Room Temperature and Nanowire Array-Based Photodetectors. <i>Nano Letters</i> , 2017, 17, 4951-4957.	9.1	210
94	A-Site Cation Effect on Growth Thermodynamics and Photoconductive Properties in Ultrapure Lead Iodine Perovskite Monocrystalline Wires. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25985-25994.	8.0	14
95	Perovskite/organic-semiconductor heterojunctions for ultrasensitive photodetection. <i>Light: Science and Applications</i> , 2017, 6, e17090-e17090.	16.6	73
96	Enhanced Photoelectrochemical Behavior of H-TiO <sub>2</sub> Nanorods Hydrogenated by Controlled and Local Rapid Thermal Annealing. <i>Nanoscale Research Letters</i> , 2017, 12, 336.	5.7	16
97	Broadband omnidirectional light detection in flexible and hierarchical ZnO/Si heterojunction photodiodes. <i>Nano Research</i> , 2017, 10, 22-36.	10.4	66
98	Influence of hydration water on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite films prepared through one-step procedure. <i>Optics Express</i> , 2016, 24, A1431.	3.4	25
99	Progress and Design Concerns of Nanostructured Solar Energy Harvesting Devices. <i>Small</i> , 2016, 12, 2536-2548.	10.0	46
100	Fabrication of CuFe <sub>2</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> Composite Thin Films on FTO Coated Glass and 3-D Nanospike Structures for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35315-35322.	8.0	67
101	Broad-band three dimensional nanocave ZnO thin film photodetectors enhanced by Au surface plasmon resonance. <i>Nanoscale</i> , 2016, 8, 8924-8930.	5.6	43
102	Dual-Layer Nanostructured Flexible Thin-Film Amorphous Silicon Solar Cells with Enhanced Light Harvesting and Photoelectric Conversion Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 10929-10936.	8.0	57
103	FLEXIBLE SOLAR CELLS. , 2016, , 365-409.		0
104	Fast Single-Cell Patterning for Study of Drug-Induced Phenotypic Alterations of HeLa Cells Using Time-of-Flight Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 12196-12203.	6.5	44
105	3D Arrays of 1024-Pixel Image Sensors based on Lead Halide Perovskite Nanowires. <i>Advanced Materials</i> , 2016, 28, 9713-9721.	21.0	228
106	High Mobility MoS <sub>2</sub> Transistor with Low Schottky Barrier Contact by Using Atomic Thick h-BN as a Tunneling Layer. <i>Advanced Materials</i> , 2016, 28, 8302-8308.	21.0	398
107	A hierarchical ZnO nanostructure gas sensor for human breath-level acetone detection. , 2016, ,		4
108	Integrated Flexible, Waterproof, Transparent, and Self-Powered Tactile Sensing Panel. <i>ACS Nano</i> , 2016, 10, 7696-7704.	14.6	83



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109	Three-dimensional nanotube electrode arrays for hierarchical tubular structured high-performance pseudocapacitors. <i>Nanoscale</i> , 2016, 8, 13280-13287.	5.6	23
110	Solar Energy: Progress and Design Concerns of Nanostructured Solar Energy Harvesting Devices (Small 19/2016). <i>Small</i> , 2016, 12, 2530-2530.	10.0	2
111	High Efficiency and Stable Perovskite Solar Cell Using ZnO/rGO QDs as an Electron Transfer Layer. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500790.	3.7	143
112	Performance improvement of solution-processed CdS/CdTe solar cells with a thin compact TiO <sub>2</sub> buffer layer. <i>Science Bulletin</i> , 2016, 61, 86-91.	9.0	17
113	Efficient, flexible and mechanically robust perovskite solar cells on inverted nanocone plastic substrates. <i>Nanoscale</i> , 2016, 8, 4276-4283.	5.6	99
114	Rational Design of ZnO:H/ZnO Bilayer Structure for High-Performance Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7862-7868.	8.0	76
115	When Nanowires Meet Ultrahigh Ferroelectric Field—High-Performance Full-Depleted Nanowire Photodetectors. <i>Nano Letters</i> , 2016, 16, 2548-2555.	9.1	135
116	Transparent megahertz circuits from solution-processed composite thin films. <i>Nanoscale</i> , 2016, 8, 7978-7983.	5.6	3
117	A Humidity-Insensitive NO <sub>2</sub> Gas Sensor With High Selectivity. <i>IEEE Electron Device Letters</i> , 2016, 37, 92-95.	3.9	20
118	Critical kinetic control of non-stoichiometric intermediate phase transformation for efficient perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 12892-12899.	5.6	98
119	High performance thin film solar cells on plastic substrates with nanostructure-enhanced flexibility. <i>Nano Energy</i> , 2016, 22, 539-547.	16.0	66
120	Negative magnetoresistance in Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> . <i>Nature Communications</i> , 2016, 7, 10301.	12.8	376
121	Designing nanobowl arrays of mesoporous TiO <sub>2</sub> as an alternative electron transporting layer for carbon cathode-based perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 6393-6402.	5.6	89
122	Particle—Film Plasmons on Periodic Silver Film over Nanosphere (AgFON): A Hybrid Plasmonic Nanoarchitecture for Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 634-642.	8.0	56
123	Chemical processing of three-dimensional graphene networks on transparent conducting electrodes for depleted-heterojunction quantum dot solar cells. <i>Chemical Communications</i> , 2016, 52, 323-326.	4.1	40
124	Fabrication of efficient planar perovskite solar cells using a one-step chemical vapor deposition method. <i>Scientific Reports</i> , 2015, 5, 14083.	3.3	200
125	Synthesis and Enhanced Electrochemical Catalytic Performance of Monolayer WS <sub>2</sub> (1-x)/Se <sub>2</sub> (x) with a Tunable Band Gap. <i>Advanced Materials</i> , 2015, 27, 4732-4738.	21.0	214
126	Single-Crystal Atomic-Layered Molybdenum Disulfide Nanobelts with High Surface Activity. <i>ACS Nano</i> , 2015, 9, 6478-6483.	14.6	72



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127	A Highly Controllable Electrochemical Anodization Process to Fabricate Porous Anodic Aluminum Oxide Membranes. <i>Nanoscale Research Letters</i> , 2015, 10, 495.	5.7	34
128	Nanobowl optical concentrator for efficient light trapping and high-performance organic photovoltaics. <i>Science Bulletin</i> , 2015, 60, 109-115.	9.0	13
129	Physicochemical properties of hybrid graphene-lead sulfide quantum dots prepared by supercritical ethanol. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	35
130	Quasi Core/Shell Lead Sulfide/Graphene Quantum Dots for Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18886-18895.	3.1	50
131	Highly flexible and transferable supercapacitors with ordered three-dimensional MnO <sub>2</sub> /Au/MnO <sub>2</sub> nanospike arrays. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10199-10204.	10.3	53
132	Hybrid zinc oxide/graphene electrodes for depleted heterojunction colloidal quantum-dot solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24412-24419.	2.8	45
133	Highly Efficient Flexible Perovskite Solar Cells with Antireflection and Self-Cleaning Nanostructures. <i>ACS Nano</i> , 2015, 9, 10287-10295.	14.6	335
134	A fast-response/recovery ZnO hierarchical nanostructure based gas sensor with ultra-high room-temperature output response. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 764-771.	7.8	82
135	Performance optimization of flexible a-Si:H solar cells with nanotextured plasmonic substrate by tuning the thickness of oxide spacer layer. <i>Nano Energy</i> , 2015, 11, 78-87.	16.0	31
136	Coupled optical and electrical modeling of thin-film amorphous silicon solar cells based on nanodent plasmonic substrates. <i>Nano Energy</i> , 2014, 8, 141-149.	16.0	24
137	Transparent, High-Performance Thin-Film Transistors with an InGaZnO/Aligned SnO <sub>2</sub> Nanowire Composite and their Application in Photodetectors. <i>Advanced Materials</i> , 2014, 26, 7399-7404.	21.0	104
138	Low-Cost, Flexible, and Self-Cleaning 3D Nanocone Anti-Reflection Films for High-Efficiency Photovoltaics. <i>Advanced Materials</i> , 2014, 26, 2805-2811.	21.0	170
139	Scalable Integration of Indium Zinc Oxide/Photosensitive Nanowire Composite Thin-Film Transistors for Transparent Multicolor Photodetectors Array. <i>Advanced Materials</i> , 2014, 26, 2919-2924.	21.0	62
140	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. <i>Nanoscale</i> , 2014, 6, 3626-3631.	5.6	57
141	Morphology Defects Guided Pore Initiation during the Formation of Porous Anodic Alumina. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2285-2291.	8.0	34
142	Semiconductor Nanocrystals as Luminescent Down-Shifting Layers To Enhance the Efficiency of Thin-Film CdTe/CdS and Crystalline Si Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16393-16400.	3.1	82
143	Flexible photovoltaic technologies. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1233.	5.5	106
144	Tailoring surface plasmons of high-density gold nanostar assemblies on metal films for surface-enhanced Raman spectroscopy. <i>Nanoscale</i> , 2014, 6, 616-623.	5.6	131

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