

# Zhiyong Fan

## List of Publications by Citations

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215  
papers

18,785  
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73  
h-index

133  
g-index

232  
ext. papers

21,174  
ext. citations

12.1  
avg, IF

6.89  
L-index

#	Paper	IF	Citations
215	Three-dimensional nanopillar-array photovoltaics on low-cost and flexible substrates. <i>Nature Materials</i> , <b>2009</b> , 8, 648-53	27	909
214	ZnO nanowire field-effect transistor and oxygen sensing property. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5923-5925	11.5	175
213	Recent advances in synthesis, physical properties and applications of conducting polymer nanotubes and nanofibers. <i>Progress in Polymer Science</i> , <b>2011</b> , 36, 1415-1442	29.6	690
212	Zinc oxide nanostructures: synthesis and properties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 1561-73	1.3	587
211	Quasi-one-dimensional metal oxide materials synthesis, properties and applications. <i>Materials Science and Engineering Reports</i> , <b>2006</b> , 52, 49-91	30.9	475
210	Wafer-scale assembly of highly ordered semiconductor nanowire arrays by contact printing. <i>Nano Letters</i> , <b>2008</b> , 8, 20-5	11.5	471
209	All-printable band-edge modulated ZnO nanowire photodetectors with ultra-high detectivity. <i>Nature Communications</i> , <b>2014</b> , 5, 4007	17.4	407
208	Gate-refreshable nanowire chemical sensors. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 123510	3.4	364
207	Toward the Development of Printable Nanowire Electronics and Sensors. <i>Advanced Materials</i> , <b>2009</b> , 21, 3730-3743	24	336
206	Diameter-dependent electron mobility of InAs nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 360-5	11.5	328
205	Silver Nanodisks: Synthesis, Characterization, and Self-Assembly. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 10777-10781	3.4	315
204	Photoluminescence and polarized photodetection of single ZnO nanowires. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 6128-6130	3.4	305
203	ZnO Nanowires Synthesized by Vapor Trapping CVD Method. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 5133-5137	3.6	300
202	Negative magnetoresistance in Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> . <i>Nature Communications</i> , <b>2016</b> , 7, 10301	17.4	289
201	High Mobility MoS Transistor with Low Schottky Barrier Contact by Using Atomic Thick h-BN as a Tunneling Layer. <i>Advanced Materials</i> , <b>2016</b> , 28, 8302-8308	24	282
200	Efficient photoelectrochemical water splitting with ultrathin films of hematite on three-dimensional nanophotonic structures. <i>Nano Letters</i> , <b>2014</b> , 14, 2123-9	11.5	277
199	Highly Efficient Flexible Perovskite Solar Cells with Antireflection and Self-Cleaning Nanostructures. <i>ACS Nano</i> , <b>2015</b> , 9, 10287-95	16.7	274

198	Controlled nanoscale doping of semiconductors via molecular monolayers. <i>Nature Materials</i> , <b>2008</b> , 7, 62-7	27	262
197	Recent advances in large-scale assembly of semiconducting inorganic nanowires and nanofibers for electronics, sensors and photovoltaics. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 4560-80	58.5	254
196	Ordered arrays of dual-diameter nanopillars for maximized optical absorption. <i>Nano Letters</i> , <b>2010</b> , 10, 3823-7	11.5	249
195	Nanomaterials and nanostructures for efficient light absorption and photovoltaics. <i>Nano Energy</i> , <b>2012</b> , 1, 57-72	17.1	219
194	High-performance ZnO nanowire field effect transistors. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 133113	3.4	208
193	Large-scale, heterogeneous integration of nanowire arrays for image sensor circuitry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 11066-70	11.5	205
192	Single InAs nanowire room-temperature near-infrared photodetectors. <i>ACS Nano</i> , <b>2014</b> , 8, 3628-35	16.7	202
191	Challenges and prospects of nanopillar-based solar cells. <i>Nano Research</i> , <b>2009</b> , 2, 829-843	10	199
190	Recent advances in solar cells based on one-dimensional nanostructure arrays. <i>Nanoscale</i> , <b>2012</b> , 4, 2783-96	9.6	191
189	Large-scale integration of semiconductor nanowires for high-performance flexible electronics. <i>ACS Nano</i> , <b>2012</b> , 6, 1888-900	16.7	182
188	Lead-Free Perovskite Nanowire Array Photodetectors with Drastically Improved Stability in Nanoengineering Templates. <i>Nano Letters</i> , <b>2017</b> , 17, 523-530	11.5	177
187	Synthesis and enhanced electrochemical catalytic performance of monolayer WS <sub>2</sub> (1-x)Se <sub>2x</sub> with a tunable band gap. <i>Advanced Materials</i> , <b>2015</b> , 27, 4732-8	24	173
186	A biomimetic eye with a hemispherical perovskite nanowire array retina. <i>Nature</i> , <b>2020</b> , 581, 278-282	50.4	172
185	3D Arrays of 1024-Pixel Image Sensors based on Lead Halide Perovskite Nanowires. <i>Advanced Materials</i> , <b>2016</b> , 28, 9713-9721	24	172
184	All Inorganic Cesium Lead Iodide Perovskite Nanowires with Stabilized Cubic Phase at Room Temperature and Nanowire Array-Based Photodetectors. <i>Nano Letters</i> , <b>2017</b> , 17, 4951-4957	11.5	169
183	Fabrication of efficient planar perovskite solar cells using a one-step chemical vapor deposition method. <i>Scientific Reports</i> , <b>2015</b> , 5, 14083	4.9	165
182	Low temperature growth of boron nitride nanotubes on substrates. <i>Nano Letters</i> , <b>2005</b> , 5, 2528-32	11.5	152
181	Bionic Single-Electrode Electronic Skin Unit Based on Piezoelectric Nanogenerator. <i>ACS Nano</i> , <b>2018</b> , 12, 8588-8596	16.7	151

180	Low-cost, flexible, and self-cleaning 3D nanocone anti-reflection films for high-efficiency photovoltaics. <i>Advanced Materials</i> , <b>2014</b> , 26, 2805-11	24	148
179	ZnO Quantum Dot Decorated ZnSnO Nanowire Heterojunction Photodetectors with Drastic Performance Enhancement and Flexible Ultraviolet Image Sensors. <i>ACS Nano</i> , <b>2017</b> , 11, 4067-4076	16.7	145
178	Palladium Diselenide Long-Wavelength Infrared Photodetector with High Sensitivity and Stability. <i>ACS Nano</i> , <b>2019</b> , 13, 2511-2519	16.7	144
177	Integrated Photo-supercapacitor Based on Bi-polar TiO <sub>2</sub> Nanotube Arrays with Selective One-Side Plasma-Assisted Hydrogenation. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1840-1846	15.6	140
176	Light Management with Nanostructures for Optoelectronic Devices. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1479-95	6.4	127
175	Efficient photon capturing with ordered three-dimensional nanowell arrays. <i>Nano Letters</i> , <b>2012</b> , 12, 3682-3685	9.5	125
174	Efficient metal halide perovskite light-emitting diodes with significantly improved light extraction on nanophotonic substrates. <i>Nature Communications</i> , <b>2019</b> , 10, 727	17.4	124
173	High Efficiency and Stable Perovskite Solar Cell Using ZnO/rGO QDs as an Electron Transfer Layer. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500790	4.6	121
172	A self-powered flexible hybrid piezoelectric/pyroelectric nanogenerator based on non-woven nanofiber membranes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3500-3509	13	119
171	Electrical properties of ZnO nanowire field effect transistors characterized with scanning probes. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 032111	3.4	116
170	Tailoring surface plasmons of high-density gold nanostar assemblies on metal films for surface-enhanced Raman spectroscopy. <i>Nanoscale</i> , <b>2014</b> , 6, 616-23	7.7	113
169	Controlled p- and n-type doping of Fe <sub>2</sub> O <sub>3</sub> nanobelt field effect transistors. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 013113	3.4	111
168	Palladium/silicon nanowire Schottky barrier-based hydrogen sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 232-238	8.5	109
167	Enhanced supercapacitance in anodic TiO <sub>2</sub> nanotube films by hydrogen plasma treatment. <i>Nanotechnology</i> , <b>2013</b> , 24, 455401	3.4	105
166	When Nanowires Meet Ultrahigh Ferroelectric Field-High-Performance Full-Depleted Nanowire Photodetectors. <i>Nano Letters</i> , <b>2016</b> , 16, 2548-55	11.5	103
165	Large scale, highly ordered assembly of nanowire parallel arrays by differential roll printing. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 203104	3.4	103
164	Printable Fabrication of a Fully Integrated and Self-Powered Sensor System on Plastic Substrates. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804285	24	102
163	Electrical and photoconductive properties of vertical ZnO nanowires in high density arrays. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 213110	3.4	101

162	Printable Fabrication of Nanocoral-Structured Electrodes for High-Performance Flexible and Planar Supercapacitor with Artistic Design. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701736	24	100
161	Transferable self-welding silver nanowire network as high performance transparent flexible electrode. <i>Nanotechnology</i> , <b>2013</b> , 24, 335202	3.4	100
160	Nanopillar photovoltaics: Materials, processes, and devices. <i>Nano Energy</i> , <b>2012</b> , 1, 132-144	17.1	100
159	EGa2O3 nanowires: Synthesis, characterization, and p-channel field-effect transistor. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 222102	3.4	99
158	A three-dimensional hexagonal fluorine-doped tin oxide nanocone array: a superior light harvesting electrode for high performance photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3651-3658	35.4	97
157	Efficient light absorption with integrated nanopillar/nanowell arrays for three-dimensional thin-film photovoltaic applications. <i>ACS Nano</i> , <b>2013</b> , 7, 2725-32	16.7	96
156	Large-Grain Tin-Rich Perovskite Films for Efficient Solar Cells via Metal Alloying Technique. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705998	24	94
155	Parallel array InAs nanowire transistors for mechanically bendable, ultrahigh frequency electronics. <i>ACS Nano</i> , <b>2010</b> , 4, 5855-60	16.7	94
154	A Fully Integrated and Self-Powered Smartwatch for Continuous Sweat Glucose Monitoring. <i>ACS Sensors</i> , <b>2019</b> , 4, 1925-1933	9.2	91
153	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> , <b>2014</b> , 26, 7399-404	24	91
152	Efficient, flexible and mechanically robust perovskite solar cells on inverted nanocone plastic substrates. <i>Nanoscale</i> , <b>2016</b> , 8, 4276-83	7.7	89
151	Self-gating effect induced large performance improvement of ZnO nanocomb gas sensors. <i>ACS Nano</i> , <b>2013</b> , 7, 9318-24	16.7	89
150	Flexible photovoltaic technologies. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 1233	7.1	87
149	Synthesis of Magnesium Borate (Mg <sub>2</sub> B <sub>2</sub> O <sub>5</sub> ) Nanowires by Chemical Vapor Deposition Method. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2512-2514	9.6	86
148	Critical kinetic control of non-stoichiometric intermediate phase transformation for efficient perovskite solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 12892-9	7.7	83
147	Designing nanobowl arrays of mesoporous TiO <sub>2</sub> s an alternative electron transporting layer for carbon cathode-based perovskite solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 6393-402	7.7	80
146	Rational design of amorphous indium zinc oxide/carbon nanotube hybrid film for unique performance transistors. <i>Nano Letters</i> , <b>2012</b> , 12, 3596-601	11.5	78
145	High-performance hybrid phenyl-C61-butyric acid methyl ester/Cd(3)P(2) nanowire ultraviolet-visible-near infrared photodetectors. <i>ACS Nano</i> , <b>2014</b> , 8, 787-96	16.7	77

144	Optical properties of metal-molybdenum disulfide hybrid nanosheets and their application for enhanced photocatalytic hydrogen evolution. <i>ACS Nano</i> , <b>2014</b> , 8, 6979-85	16.7	76
143	Inverted nanocone-based thin film photovoltaics with omnidirectionally enhanced performance. <i>ACS Nano</i> , <b>2014</b> , 8, 6484-90	16.7	74
142	Wearable Sweat Band for Noninvasive Levodopa Monitoring. <i>Nano Letters</i> , <b>2019</b> , 19, 6346-6351	11.5	73
141	A calibration-free self-powered sensor for vital sign monitoring and finger tap communication based on wearable triboelectric nanogenerator. <i>Nano Energy</i> , <b>2019</b> , 58, 536-542	17.1	72
140	Porous Enzymatic Membrane for Nanotextured Glucose Sweat Sensors with High Stability toward Reliable Noninvasive Health Monitoring. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902521	15.6	71
139	A fast-response/recovery ZnO hierarchical nanostructure based gas sensor with ultra-high room-temperature output response. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 206, 764-771	8.5	71
138	Strong light absorption of self-organized 3-D nanospire arrays for photovoltaic applications. <i>ACS Nano</i> , <b>2011</b> , 5, 9291-8	16.7	71
137	. <i>IEEE Nanotechnology Magazine</i> , <b>2006</b> , 5, 393-396	2.6	70
136	Performance enhancement of thin-film amorphous silicon solar cells with low cost nanodent plasmonic substrates. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2965	35.4	67
135	Design constraints and guidelines for CdS/CdTe nanopillar based photovoltaics. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 103116	3.4	67
134	Synthesis, contact printing, and device characterization of Ni-catalyzed, crystalline InAs nanowires. <i>Nano Research</i> , <b>2008</b> , 1, 32-39	10	67
133	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> , <b>2014</b> , 118, 16393-16400	3.8	66
132	Stacking-mode confined growth of 2H-MoTe <sub>2</sub> /MoS <sub>2</sub> bilayer heterostructures for UV-VisIR photodetectors. <i>Nano Energy</i> , <b>2018</b> , 49, 200-208	17.1	65
131	Ferroelectric Localized Field-Enhanced ZnO Nanosheet Ultraviolet Photodetector with High Sensitivity and Low Dark Current. <i>Small</i> , <b>2018</b> , 14, e1800492	11	65
130	Black Ge based on crystalline/amorphous core/shell nanoneedle arrays. <i>Nano Letters</i> , <b>2010</b> , 10, 520-3	11.5	65
129	Integrated Flexible, Waterproof, Transparent, and Self-Powered Tactile Sensing Panel. <i>ACS Nano</i> , <b>2016</b> , 10, 7696-704	16.7	64
128	Monolayer resist for patterned contact printing of aligned nanowire arrays. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2102-3	16.4	64
127	Efficient photon management with nanostructures for photovoltaics. <i>Nanoscale</i> , <b>2013</b> , 5, 6627-40	7.7	63

126	Rational Design of ZnO:H/ZnO Bilayer Structure for High-Performance Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7862-8	9.5	61
125	Current progress in developing metal oxide nanoarrays-based photoanodes for photoelectrochemical water splitting. <i>Science Bulletin</i> , <b>2019</b> , 64, 1348-1380	10.6	59
124	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> , <b>2019</b> , 7, 14753-14760	13	58
123	Roll-to-roll fabrication of large scale and regular arrays of three-dimensional nanopikes for high efficiency and flexible photovoltaics. <i>Scientific Reports</i> , <b>2014</b> , 4, 4243	4.9	57
122	Scalable integration of indium zinc oxide/photosensitive-nanowire composite thin-film transistors for transparent multicolor photodetectors array. <i>Advanced Materials</i> , <b>2014</b> , 26, 2919-24	24	57
121	Perovskite/organic-semiconductor heterojunctions for ultrasensitive photodetection. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e17090	16.7	57
120	Single-Crystal Atomic-Layered Molybdenum Disulfide Nanobelts with High Surface Activity. <i>ACS Nano</i> , <b>2015</b> , 9, 6478-83	16.7	57
119	Ultra-Low-Power Smart Electronic Nose System Based on Three-Dimensional Tin Oxide Nanotube Arrays. <i>ACS Nano</i> , <b>2018</b> , 12, 6079-6088	16.7	57
118	Formation and characterization of NixInAs/InAs nanowire heterostructures by solid source reaction. <i>Nano Letters</i> , <b>2008</b> , 8, 4528-33	11.5	56
117	Constructing optimized wire electrodes for fiber supercapacitors. <i>Nano Energy</i> , <b>2014</b> , 10, 99-107	17.1	54
116	Patterned p-doping of InAs nanowires by gas-phase surface diffusion of Zn. <i>Nano Letters</i> , <b>2010</b> , 10, 509-113.5	13.5	54
115	Flexible Quasi-2D Perovskite/IGZO Phototransistors for Ultrasensitive and Broadband Photodetection. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907527	24	54
114	High performance thin film solar cells on plastic substrates with nanostructure-enhanced flexibility. <i>Nano Energy</i> , <b>2016</b> , 22, 539-547	17.1	53
113	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. <i>Nanoscale</i> , <b>2014</b> , 6, 3626-31	7.7	50
112	Fabrication of CuFeO/FeO Composite Thin Films on FTO Coated Glass and 3-D Nanospire Structures for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 35315-35322	9.5	50
111	Recent progress on printable power supply devices and systems with nanomaterials. <i>Nano Research</i> , <b>2018</b> , 11, 3065-3087	10	49
110	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> , <b>2016</b> , 8, 634-42	9.5	49
109	Rational geometrical design of multi-diameter nanopillars for efficient light harvesting. <i>Nano Energy</i> , <b>2013</b> , 2, 951-957	17.1	49

108	Structures and electrical properties of Ag-tetracyanoquinodimethane organometallic nanowires. <i>IEEE Nanotechnology Magazine</i> , <b>2005</b> , 4, 238-241	2.6	48
107	Highly flexible and transferable supercapacitors with ordered three-dimensional MnO <sub>2</sub> /Au/MnO <sub>2</sub> nanospikes arrays. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10199-10204	13	47
106	Broadband omnidirectional light detection in flexible and hierarchical ZnO/Si heterojunction photodiodes. <i>Nano Research</i> , <b>2017</b> , 10, 22-36	10	47
105	A non-catalytic vapor growth regime for organohalide perovskite nanowires using anodic aluminum oxide templates. <i>Nanoscale</i> , <b>2017</b> , 9, 5828-5834	7.7	46
104	Quasi Core/Shell Lead Sulfide/Graphene Quantum Dots for Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 18886-18895	3.8	45
103	Fabrication of one dimensional superfine polymer fibers by double-spinning. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 13159		45
102	Increasing Photoluminescence Quantum Yield by Nanophotonic Design of Quantum-Confined Halide Perovskite Nanowire Arrays. <i>Nano Letters</i> , <b>2019</b> , 19, 2850-2857	11.5	44
101	Hybrid zinc oxide/graphene electrodes for depleted heterojunction colloidal quantum-dot solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 24412-9	3.6	44
100	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> , <b>2016</b> , 8, 10929-36	9.5	43
99	Room-Temperature Sputtered SnO as Robust Electron Transport Layer for Air-Stable and Efficient Perovskite Solar Cells on Rigid and Flexible Substrates. <i>Scientific Reports</i> , <b>2019</b> , 9, 6963	4.9	41
98	Large scale, flexible and three-dimensional quasi-ordered aluminum nanospikes for thin film photovoltaics with omnidirectional light trapping and optimized electrical design. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3611-3616	35.4	41
97	Significantly improved black phase stability of FAPbI nanowires via spatially confined vapor phase growth in nanoporous templates. <i>Nanoscale</i> , <b>2018</b> , 10, 15164-15172	7.7	39
96	Efficient and Flexible Thin Film Amorphous Silicon Solar Cells on Nanotextured Polymer Substrate Using Sol-gel Based Nanoimprinting Method. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604720	15.6	38
95	Progress and Design Concerns of Nanostructured Solar Energy Harvesting Devices. <i>Small</i> , <b>2016</b> , 12, 2536-48		38
94	Hybrid WSe-InO Phototransistor with Ultrahigh Detectivity by Efficient Suppression of Dark Currents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34489-34496	9.5	37
93	Chemical processing of three-dimensional graphene networks on transparent conducting electrodes for depleted-heterojunction quantum dot solar cells. <i>Chemical Communications</i> , <b>2016</b> , 52, 323-6	5.8	36
92	Broad-band three dimensional nanocave ZnO thin film photodetectors enhanced by Au surface plasmon resonance. <i>Nanoscale</i> , <b>2016</b> , 8, 8924-30	7.7	36
91	Three-Dimensional Perovskite Nanophotonic Wire Array-Based Light-Emitting Diodes with Significantly Improved Efficiency and Stability. <i>ACS Nano</i> , <b>2020</b> , 14, 1577-1585	16.7	34



90	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> , <b>2017</b> , 121, 18360-18368	3.8	34
89	Physicochemical properties of hybrid graphene/lead sulfide quantum dots prepared by supercritical ethanol. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	34
88	Preparation and electrical/optical bistable property of potassium tetracyanoquinodimethane thin films. <i>Thin Solid Films</i> , <b>2003</b> , 436, 259-263	2.2	34
87	Perovskite Nanowire Extrusion. <i>Nano Letters</i> , <b>2017</b> , 17, 6557-6563	11.5	33
86	Morphology Defects Guided Pore Initiation during the Formation of Porous Anodic Alumina. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2285-91	9.5	32
85	Wireless Single-Electrode Self-Powered Piezoelectric Sensor for Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 8288-8295	9.5	31
84	Phosphine oxide monolayers on SiO <sub>2</sub> surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 4440-44	10.4	31
83	A Wearable Nutrition Tracker. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006444	24	31
82	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> , <b>2016</b> , 88, 12196-12203	7.8	30
81	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> , <b>2015</b> , 11, 78-87	17.1	29
80	Shape-controlled synthesis of single-crystalline nanopillar arrays by template-assisted vapor-liquid-solid process. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13972-4	16.4	28
79	Scalable Indium Phosphide Thin-Film Nanophotonics Platform for Photovoltaic and Photoelectrochemical Devices. <i>ACS Nano</i> , <b>2017</b> , 11, 5113-5119	16.7	27
78	Light Out-Coupling Management in Perovskite LEDs: What Can We Learn from the Past?. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002570	15.6	26
77	High-quality organohalide lead perovskite films fabricated by layer-by-layer alternating vacuum deposition for high efficiency photovoltaics. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1520-1525	7.8	25
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