

Weilie Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,366
citations

516710

16
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752698

20
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docs citations

22
times ranked

2283
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Growth of Highly Mismatched Type II ZnO/ZnSe Core/Shell Nanowire Arrays on Transparent Conducting Oxide Substrates for Solar Cell Applications. <i>Advanced Materials</i> , 2008, 20, 3248-3253.	21.0	330
2	Piezo-phototronic Effect Enhanced UV/Visible Photodetector Based on Fully Wide Band Gap Type-II ZnO/ZnS Core/Shell Nanowire Array. <i>ACS Nano</i> , 2015, 9, 6419-6427.	14.6	232
3	Three-Dimensional Cobalt Phosphide Nanowire Arrays as Negative Electrode Material for Flexible Solid-State Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16986-16994.	8.0	113
4	Vertically Aligned CdSe Nanowire Arrays for Energy Harvesting and Piezotronic Devices. <i>ACS Nano</i> , 2012, 6, 6478-6482.	14.6	91
5	Rational design of type-II nano-heterojunctions for nanoscale optoelectronics. <i>Materials Today Physics</i> , 2020, 15, 100262.	6.0	74
6	Visible-light-response iodine-doped titanium dioxide nanocrystals for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 3877.	6.7	73
7	Enhanced Broad Band Photodetection through Piezo-Phototronic Effect in CdSe/ZnTe Core/Shell Nanowire Array. <i>Advanced Electronic Materials</i> , 2015, 1, 1400050.	5.1	71
8	PEDOT coated iron phosphide nanorod arrays as high-performance supercapacitor negative electrodes. <i>Chemical Communications</i> , 2018, 54, 794-797.	4.1	52
9	Dual-functional ZnO nanorod aggregates as scattering layer in the photoanode for dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 11519.	4.1	49
10	Cu ₂ ZnSnS ₄ nanoplate arrays synthesized by pulsed laser deposition with high catalytic activity as counter electrodes for dye-sensitized solar cell applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15517.	10.3	44
11	Piezophototronic Effect Enhanced UV/Visible Photodetector Based on ZnO/ZnSe Heterostructure Core/Shell Nanowire Array and Its Self-Powered Performance. <i>Advanced Electronic Materials</i> , 2016, 2, 1600242.	5.1	36
12	Nearly lattice matched all wurtzite CdSe/ZnTe type II core-shell nanowires with epitaxial interfaces for photovoltaics. <i>Nanoscale</i> , 2014, 6, 3679-3685.	5.6	34
13	Drug-loaded, magnetic, hollow silica nanocomposites for nanomedicine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2005, 1, 233-237.	3.3	31
14	Photocurrent Enhanced in UV-vis-NIR Photodetector Based on CdSe/CdTe Core/Shell Nanowire Arrays by Piezo-Phototronic Effect. <i>ACS Photonics</i> , 2020, 7, 1461-1467.	6.6	28
15	Vertically Aligned ZnO Nanorod Arrays Coated with SnO_2 /Noble Metal Nanoparticles for Highly Sensitive and Selective Gas Detection. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 968-974.	2.0	27
16	Synthesis of FeP nanotube arrays as negative electrode for solid-state asymmetric supercapacitor. <i>Nanotechnology</i> , 2019, 30, 295401.	2.6	27
17	Axial growth of Zn ₂ GeO ₄ /ZnO nanowire heterojunction using chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2011, 316, 46-50.	1.5	16
18	Light-Effect Transistor (LET) with Multiple Independent Gating Controls for Optical Logic Gates and Optical Amplification. <i>Frontiers in Physics</i> , 2016, 4, .	2.1	16

#	ARTICLE	IF	CITATIONS
19	Facile Route to Polycrystalline Pd/ SnO_2 Nanowires Using ZnO-Nanowire Templates for Gas-Sensing Applications. IEEE Nanotechnology Magazine, 2010, 9, 634-639.	2.0	14
20	Coupling Effect of Magnetic Fields on Piezotronic and Piezophototronic Properties of ZnO and ZnO/ Co_3O_4 Core/Shell Nanowire Arrays. ACS Applied Nano Materials, 2018, 1, 6897-6903.	5.0	8
21	Three-Dimensional Photovoltaic Devices Based on Vertically Aligned Nanowire Array. , 2011, , 447-475.		0
22	Heterojunction formation between zinc oxide nanowire array and $\text{Cu}_2\text{ZnSnS}_4$ nanoparticles for 3-dimensional nanostructured solar cells. , 2015, , .		0