

Guangmei Zhai

List of Publications by Year in descending order

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37
papers

650
citations

516710

16
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580821

25
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37
all docs

37
docs citations

37
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface passivation of perovskite films by potassium bis(fluorosulfonyl)imide for efficient solar cells. <i>Organic Electronics</i> , 2022, , 106544.	2.6	4
2	Solvent-mediated surface ligand exchange to enhance the performance of quantum-dot light-emitting diodes. <i>Organic Electronics</i> , 2022, 108, 106561.	2.6	1
3	Effect of reaction temperature on film quality and cell performance: Comparative study of single and mixed cation/halide perovskites. <i>Materials Science in Semiconductor Processing</i> , 2022, 150, 106952.	4.0	0
4	Solution-processed blue quantum-dot light-emitting diodes based on double hole transport layers: Charge injection balance, solvent erosion control and performance improvement. <i>Superlattices and Microstructures</i> , 2020, 140, 106460.	3.1	15
5	Improving performance of perovskite solar cells based on ZnO nanorods via rod-length control and sulfidation treatment. <i>Materials Science in Semiconductor Processing</i> , 2020, 117, 105205.	4.0	22
6	Tailoring perovskite conversion and grain growth by in situ solvent assisted crystallization and compositional variation for highly efficient perovskite solar cells. <i>Organic Electronics</i> , 2019, 69, 208-215.	2.6	10
7	Towards understanding the initial performance improvement of PbS quantum dot solar cells upon short-term air exposure. <i>RSC Advances</i> , 2018, 8, 15149-15157.	3.6	19
8	Enhancement of carrier localization effect and internal quantum efficiency through In-rich InGaN quantum dots. <i>Superlattices and Microstructures</i> , 2018, 113, 497-501.	3.1	19
9	Influence of in-situ deposited SiN _x interlayer on crystal quality of GaN epitaxial films. <i>Superlattices and Microstructures</i> , 2018, 117, 57-64.	3.1	3
10	Colloidal synthesis of lead-free all-inorganic cesium bismuth bromide perovskite nanoplatelets. <i>CrystEngComm</i> , 2018, 20, 7473-7478.	2.6	44
11	Morphologies and optical and electrical properties of InGaN/GaN micro-square array light-emitting diode chips. <i>Applied Optics</i> , 2018, 57, 2835.	1.8	4
12	Solution-processed solar-blind deep ultraviolet photodetectors based on strongly quantum confined ZnS quantum dots. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11266-11271.	5.5	46
13	Enhanced device performance and stability of perovskite solar cells with low-temperature ZnO/TiO ₂ bilayered electron transport layers. <i>RSC Advances</i> , 2018, 8, 23019-23026.	3.6	17
14	Effects of Different Surface Functionalization and Doping on the Electronic Transport Properties of M ₂ CT _x M ₂ CO ₂ Heterojunction Devices. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14908-14917.	3.1	18
15	Accelerated formation and improved performance of CH ₃ NH ₃ PbI ₃ -based perovskite solar cells via solvent coordination and anti-solvent extraction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4190-4198.	10.3	65
16	Low cost and large scale synthesis of PbS quantum dots with hybrid surface passivation. <i>CrystEngComm</i> , 2017, 19, 946-951.	2.6	24
17	Photoluminescence close to V-shaped pits in the quantum wells and enhanced output power for InGaN light emitting diode. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 475103.	2.8	10
18	Current rectification induced by V-doped and Sc-doped in Ti ₂ CO ₂ devices. <i>Computational Materials Science</i> , 2017, 138, 175-182.	3.0	15

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19	Enhanced light extraction efficiency of a InGaN/GaN micro-square array light-emitting diode chip. <i>Optical Materials Express</i> , 2017, 7, 3261.	3.0	12
20	The effect of nucleation layer thickness on the structural evolution and crystal quality of bulk GaN grown by a two-step process on cone-patterned sapphire substrate. <i>Journal of Crystal Growth</i> , 2016, 442, 89-94.	1.5	11
21	The morphologies and optical properties of three-dimensional GaN nano-cone arrays. <i>RSC Advances</i> , 2016, 6, 43272-43277.	3.6	3
22	Tuning the chromaticity of the emission color of the copolymers containing Eu(III), Tb(III), Be(II) ions based on colorimetric principle. <i>Optical Materials</i> , 2016, 52, 92-99.	3.6	9
23	Effect of light Si doping on the properties of GaN. <i>Physica B: Condensed Matter</i> , 2016, 485, 1-5.	2.7	1
24	Effect of capping ligands on the optical properties and electronic energies of iron pyrite FeS ₂ nanocrystals and solid thin films. <i>Journal of Alloys and Compounds</i> , 2016, 674, 9-15.	5.5	15
25	PbS Quantum Dots: Size, Ligand Dependent Energy Level Structures and Their Effects on the Performance of Heterojunction Solar Cells. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2016, 31, 915.	1.3	3
26	The evolution of a GaN/sapphire interface with different nucleation layer thickness during two-step growth and its influence on the bulk GaN crystal quality. <i>RSC Advances</i> , 2015, 5, 51201-51207.	3.6	23
27	Syntheses and luminescent properties of a copolymer of terbium <i>p</i> -aminobenzoic acid-methacrylic acid and styrene. <i>Luminescence</i> , 2015, 30, 1020-1025.	2.9	1
28	Preparation and characterization of SiC@CNT coaxial nanocables using CNTs as a template. <i>CrystEngComm</i> , 2014, 16, 9697-9703.	2.6	25
29	Quantum dot Ge/TiO ₂ heterojunction photoconductor fabrication and performance. <i>Applied Physics Letters</i> , 2013, 103, 223506.	3.3	24
30	Thermal Properties of TiO ₂ /PbS Nanoparticle Solar Cells. <i>Nanomaterials and Nanotechnology</i> , 2012, 2, 18.	3.0	2
31	Quantum dot PbS _{0.9} Se _{0.1} /TiO ₂ heterojunction solar cells. <i>Nanotechnology</i> , 2012, 23, 405401.	2.6	31
32	Air stability of TiO ₂ /PbS colloidal nanoparticle solar cells and its impact on power efficiency. <i>Applied Physics Letters</i> , 2011, 99, 063512.	3.3	29
33	Comparative study of ZnSe thin films deposited from modified chemical bath solutions with ammonia-containing and ammonia-free precursors. <i>Materials Chemistry and Physics</i> , 2010, 120, 456-460.	4.0	34
34	High efficiency mesoporous titanium oxide PbS quantum dot solar cells at low temperature. <i>Applied Physics Letters</i> , 2010, 97, 043106.	3.3	63
35	Growth orientation and shape evolution of colloidal lead selenide nanocrystals with different shapes. <i>CrystEngComm</i> , 2010, 12, 3243.	2.6	11
36	Preparation of mercaptoacetic acid-capped ZnSe core-shell nanocrystals by hydrothermal method. <i>Ceramics International</i> , 2008, 34, 1085-1087.	4.8	9

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37	Optical linearity and nonlinearity of ZnSe nanocrystals embedded in epoxy resin matrix investigated by Z-scan technique. <i>Ceramics International</i> , 2008, 34, 1073-1076.	4.8	8