

Guangmei Zhai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3957307/publications.pdf>

Version: 2024-02-01

37
papers

650
citations

516710

16
h-index

580821

25
g-index

37
all docs

37
docs citations

37
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated formation and improved performance of CH ₃ NH ₃ PbI ₃ -based perovskite solar cells via solvent coordination and anti-solvent extraction. Journal of Materials Chemistry A, 2017, 5, 4190-4198.	10.3	65
2	High efficiency mesoporous titanium oxide PbS quantum dot solar cells at low temperature. Applied Physics Letters, 2010, 97, 043106.	3.3	63
3	Solution-processed solar-blind deep ultraviolet photodetectors based on strongly quantum confined ZnS quantum dots. Journal of Materials Chemistry C, 2018, 6, 11266-11271.	5.5	46
4	Colloidal synthesis of lead-free all-inorganic cesium bismuth bromide perovskite nanoplatelets. CrystEngComm, 2018, 20, 7473-7478.	2.6	44
5	Comparative study of ZnSe thin films deposited from modified chemical bath solutions with ammonia-containing and ammonia-free precursors. Materials Chemistry and Physics, 2010, 120, 456-460.	4.0	34
6	Quantum dot PbS _{0.9} Se _{0.1} /TiO ₂ heterojunction solar cells. Nanotechnology, 2012, 23, 405401.	2.6	31
7	Air stability of TiO ₂ /PbS colloidal nanoparticle solar cells and its impact on power efficiency. Applied Physics Letters, 2011, 99, 063512.	3.3	29
8	Preparation and characterization of SiC@CNT coaxial nanocables using CNTs as a template. CrystEngComm, 2014, 16, 9697-9703.	2.6	25
9	Quantum dot Ge/TiO ₂ heterojunction photoconductor fabrication and performance. Applied Physics Letters, 2013, 103, 223506.	3.3	24
10	Low cost and large scale synthesis of PbS quantum dots with hybrid surface passivation. CrystEngComm, 2017, 19, 946-951.	2.6	24
11	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. RSC Advances, 2015, 5, 51201-51207.	3.6	23
12	Improving performance of perovskite solar cells based on ZnO nanorods via rod-length control and sulfidation treatment. Materials Science in Semiconductor Processing, 2020, 117, 105205.	4.0	22
13	Towards understanding the initial performance improvement of PbS quantum dot solar cells upon short-term air exposure. RSC Advances, 2018, 8, 15149-15157.	3.6	19
14	Enhancement of carrier localization effect and internal quantum efficiency through In-rich InGaN quantum dots. Superlattices and Microstructures, 2018, 113, 497-501.	3.1	19
15	Effects of Different Surface Functionalization and Doping on the Electronic Transport Properties of M ₂ CT _x M ₂ CO ₂ Heterojunction Devices. Journal of Physical Chemistry C, 2018, 122, 14908-14917.	3.1	18
16	Enhanced device performance and stability of perovskite solar cells with low-temperature ZnO/TiO ₂ bilayered electron transport layers. RSC Advances, 2018, 8, 23019-23026.	3.6	17
17	Effect of capping ligands on the optical properties and electronic energies of iron pyrite FeS ₂ nanocrystals and solid thin films. Journal of Alloys and Compounds, 2016, 674, 9-15.	5.5	15
18	Current rectification induced by V-doped and Sc-doped in Ti ₂ CO ₂ devices. Computational Materials Science, 2017, 138, 175-182.	3.0	15

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Growth orientation and shape evolution of colloidal lead selenide nanocrystals with different shapes. <i>CrystEngComm</i> , 2010, 12, 3243.	2.6	11
22	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
23	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
24	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
25	Preparation of mercaptoacetic acid-capped ZnSe core-shell nanocrystals by hydrothermal method. <i>Ceramics International</i> , 2008, 34, 1085-1087.	4.8	9
26	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
27	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
28	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
29	Surface passivation of perovskite films by potassium bis(fluorosulfonyl)imide for efficient solar cells. <i>Organic Electronics</i> , 2022, , 106544.	2.6	4
30	The morphologies and optical properties of three-dimensional GaN nano-cone arrays. <i>RSC Advances</i> , 2016, 6, 43272-43277.	3.6	3
31	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
32	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
33	Thermal Properties of TiO ₂ /PbS Nanoparticle Solar Cells. <i>Nanomaterials and Nanotechnology</i> , 2012, 2, 18.	3.0	2
34	Syntheses and luminescent properties of a copolymer of terbium-aminobenzoic acid-methacrylic acid and styrene. <i>Luminescence</i> , 2015, 30, 1020-1025.	2.9	1
35	Effect of light Si doping on the properties of GaN. <i>Physica B: Condensed Matter</i> , 2016, 485, 1-5.	2.7	1
36	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

#	ARTICLE	IF	CITATIONS
37	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