

Mou Pal

List of Publications by Year in descending order

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43
papers

2,911
citations

393982

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44
docs citations

44
times ranked

5371
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting the efficiency of Cd-free kesterite/kesterite tandem solar cell: A numerical simulation approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 138, 115056.	1.3	3
2	Path toward the Performance Upgrade of Lead-Free Perovskite Solar Cells Using $\text{Cu}_2\text{ZnSn}_{1-x}\text{Ge}_x\text{S}_4$ as a Hole Transport Layer: A Theoretical Simulation Approach. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5847-5862.	1.5	6
3	Ge incorporation in kesterite thin films by solution processing route: An in-depth study of structural and optoelectronic properties. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166184.	2.8	2
4	Facile solvothermal synthesis of $\text{Cu}_2\text{ZnSn}_{1-x}\text{Ge}_x\text{S}_4$ nanocrystals: Effect of Ge content on optical and electrical properties. <i>Materials Chemistry and Physics</i> , 2021, 257, 123764.	2.0	15
5	Theoretical modelling and device structure engineering of kesterite solar cells to boost the conversion efficiency over 20%. <i>Solar Energy</i> , 2021, 220, 316-330.	2.9	23
6	$\text{Cu}_2\text{ZnGeS}_4$ nanorods by solvothermal method: physical and photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17282-17291.	1.1	1
7	Theoretical evaluation of emerging Cd-free Cu_3BiS_3 based solar cells using experimental data of chemically deposited Cu_3BiS_3 thin films. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159156.	2.8	7
8	Phase pure CuSbS_2 thin films by heat treatment of electrodeposited $\text{Sb}_2\text{S}_3/\text{Cu}$ layers. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 185-194.	1.2	17
9	Microwave-assisted chemical synthesis of Zn_2SnO_4 nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2020, 108, 104878.	1.9	12
10	Structural evolution of chemically deposited binary stacks of Sb_2S_3 \rightarrow CuS to phase-pure CuSbS_2 thin films and evaluation of device parameters of $\text{CuSbS}_2/\text{CdS}$ heterojunction. <i>International Journal of Energy Research</i> , 2020, 44, 5881-5894.	2.2	7
11	Development of $\text{Cu}_2\text{ZnSnS}_4$ films from a non-toxic molecular precursor ink and theoretical investigation of device performance using experimental outcomes. <i>Solar Energy</i> , 2020, 199, 246-255.	2.9	19
12	Structural, optical, and photoluminescence properties of erbium doped TiO_2 films. <i>Vacuum</i> , 2019, 169, 108873.	1.6	29
13	Electrical properties and spectroscopic ellipsometry studies of covellite CuS thin films deposited from non ammoniacal chemical bath. <i>Optical Materials</i> , 2019, 91, 147-154.	1.7	19
14	Facile synthesis of $\text{Cu}_2\text{ZnGeS}_4$ thin films from binary metal sulfides and study of their physical properties. <i>Thin Solid Films</i> , 2019, 676, 68-74.	0.8	14
15	Structural, optical and electrical properties of copper antimony sulfide thin films grown by a citrate-assisted single chemical bath deposition. <i>Applied Surface Science</i> , 2018, 427, 1099-1106.	3.1	32
16	Highly stable mesoporous silica nanospheres embedded with FeCo /graphitic shell nanocrystals as magnetically recyclable multifunctional adsorbents for wastewater treatment. <i>RSC Advances</i> , 2018, 8, 1089-1097.	1.7	15
17	Bi_2S_3 nanoparticles by facile chemical synthesis: Role of pH on growth and physical properties. <i>Advanced Powder Technology</i> , 2018, 29, 3561-3568.	2.0	18
18	Effect of Ag doping on structural, optical and electrical properties of antimony sulfide thin films. <i>Journal of Materials Science</i> , 2018, 53, 11562-11573.	1.7	29

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19	CdTe/CdS solar cells with CdTe grown at low vacuum. <i>Vacuum</i> , 2017, 142, 175-180.	1.6	18
20	Surfactant-mediated self-assembly of Sb ₂ S ₃ nanorods during hydrothermal synthesis. <i>Journal of Materials Research</i> , 2017, 32, 530-538.	1.2	21
21	Phase controlled synthesis of CuSbS ₂ nanostructures: Effect of reaction conditions on phase purity and morphology. <i>Materials and Design</i> , 2017, 136, 165-173.	3.3	12
22	CuOX thin films by direct oxidation of Cu films deposited by physical vapor deposition. <i>Results in Physics</i> , 2017, 7, 4140-4144.	2.0	28
23	Effect of ytterbium doping concentration on structural, optical and photocatalytic properties of TiO ₂ thin films. <i>Ceramics International</i> , 2017, 43, 15777-15784.	2.3	37
24	Synthesis and characterization of nanoparticles of CZTSe by microwave-assisted chemical synthesis. <i>Materials Research Express</i> , 2016, 3, 125017.	0.8	12
25	Synthesis of pyrite FeS ₂ nanorods by simple hydrothermal method and its photocatalytic activity. <i>Chemical Physics Letters</i> , 2016, 660, 93-98.	1.2	102
26	Effect of Eu ion incorporation on the emission behavior of Y ₂ O ₃ nanophosphors: A detailed study of structural and optical properties. <i>Optical Materials</i> , 2016, 60, 159-168.	1.7	66
27	Antimony sulfide (Sb ₂ S ₃) thin films by pulse electrodeposition: Effect of thermal treatment on structural, optical and electrical properties. <i>Materials Science in Semiconductor Processing</i> , 2016, 44, 91-100.	1.9	86
28	Structural Evolution of Multilayer SnS/Cu/ZnS Stack to Phase-Pure Cu ₂ ZnSnS ₄ Thin Films by Thermal Processing. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, P91-P96.	0.9	21
29	Synthesis of CuS nanoparticles by a wet chemical route and their photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	78
30	Phase controlled solvothermal synthesis of Cu ₂ ZnSnS ₄ , Cu ₂ ZnSn(S,Se) ₄ and Cu ₂ ZnSnSe ₄ Nanocrystals: The effect of Se and S sources on phase purity. <i>Materials Chemistry and Physics</i> , 2015, 166, 201-206.	2.0	14
31	Thermal treatments and characterization of CZTS thin films deposited using nanoparticle ink. <i>Canadian Journal of Physics</i> , 2014, 92, 875-878.	0.4	6
32	Formation of Cu ₂ SnS ₃ thin film by the heat treatment of electrodeposited SnS/Cu layers. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 4060-4067.	1.1	53
33	Synthesis of Eu ³⁺ doped ZnS nanoparticles by a wet chemical route and its characterization. <i>Optical Materials</i> , 2013, 35, 2664-2669.	1.7	53
34	Ultra-small, Uniform, and Single bcc-Phased Fe _x Co _{1-x} /Graphitic Shell Nanocrystals for T ₁ Magnetic Resonance Imaging Contrast Agents. <i>Chemistry - an Asian Journal</i> , 2013, 8, 290-295.	1.7	13
35	Confined growth of highly uniform and single bcc-phased FeCo/graphitic-shell nanocrystals in SBA-15. <i>Microporous and Mesoporous Materials</i> , 2013, 180, 32-39.	2.2	14
36	Synthesis of Cu ₂ ZnSnS ₄ nanocrystals by solvothermal method. <i>Thin Solid Films</i> , 2013, 535, 78-82.	0.8	35

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37	Effects of crystallization and dopant concentration on the emission behavior of TiO ₂ :Eu nanophosphors. <i>Nanoscale Research Letters</i> , 2012, 7, 1.	3.1	1,685
38	A facile one-pot synthesis of highly luminescent CdS nanoparticles using thioglycerol as capping agent. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	48
39	Gram-scale synthesis of highly crystalline, 0-D and 1-D SnO ₂ nanostructures through surfactant-free hydrothermal process. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	15
40	Thermoluminescence and Optically Stimulated Luminescence Properties of TiO_2/Yb Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1851-1857.	0.9	5
41	Size-Controlled Synthesis of Spherical TiO ₂ Nanoparticles: Morphology, Crystallization, and Phase Transition. <i>Journal of Physical Chemistry C</i> , 2007, 111, 96-102.	1.5	182
42	Synthesis and Photocatalytic Activity of Yb Doped TiO ₂ Nanoparticles under Visible Light. <i>Journal of Nano Research</i> , 0, 5, 193-200.	0.8	35
43	Synthesis and Characterization of SnS Nanoparticles through a Non-Aqueous Chemical Route for Depositing Photovoltaic Absorber Layers. <i>Journal of Nano Research</i> , 0, 28, 91-99.	0.8	4