

Ali Abdolazadeh Ziabari

List of Publications by Year in descending order

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41
papers

975
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471509

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454955

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42
times ranked

1099
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth, characterization and studying of sol-gel derived CdS nanocrystalline thin films incorporated in polyethyleneglycol: Effects of post-heat treatment. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 249-262.	6.2	160
2	Optoelectronic studies of sol-gel derived nanostructured CdO-ZnO composite films. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8748-8755.	5.5	111
3	Carrier transport and bandgap shift in n-type degenerate ZnO thin films: The effect of band edge nonparabolicity. <i>Physica B: Condensed Matter</i> , 2012, 407, 4512-4517.	2.7	82
4	Correlation between morphology and electro-optical properties of nanostructured CdO thin films: Influence of Al doping. <i>Surface and Coatings Technology</i> , 2012, 213, 15-20.	4.8	58
5	Influence of Cu doping and post-heat treatment on the microstructure, optical properties and photoluminescence features of sol-gel derived nanostructured CdS thin films. <i>Journal of Luminescence</i> , 2013, 141, 121-129.	3.1	57
6	Synthesis and characterization of nanocrystalline CdZnO thin films prepared by sol-gel dip-coating process. <i>Thin Solid Films</i> , 2011, 520, 1228-1232.	1.8	42
7	Surface morphology and optoelectronic studies of sol-gel derived nanostructured CdO thin films: heat treatment effect. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1628-1639.	2.2	40
8	Effects of the Cd:Zn:S molar ratio and heat treatment on the optical and photoluminescence properties of nanocrystalline CdZnS thin films. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1629-1636.	4.0	40
9	Synthesis and Characterization of the Antibacterial Activity of Zinc Oxide Nanoparticles against <i>Salmonella typhi</i> . <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 601-608.	2.9	28
10	First-principle calculation of the elastic, band structure, electronic states, and optical properties of Cu-doped ZnS nanolayers. <i>Physica B: Condensed Matter</i> , 2016, 501, 146-152.	2.7	26
11	Optical and Structural Studies of Sol-Gel Deposited Nanostructured CdO Thin Films: Annealing Effect. <i>Acta Physica Polonica A</i> , 2011, 120, 536-540.	0.5	24
12	Synthesis of TiO ₂ nanotube array thin films and determination of the optical constants using transmittance data. <i>Superlattices and Microstructures</i> , 2015, 77, 25-34.	3.1	23
13	Efficiency Enhancement of Ultra-thin CIGS Solar Cells Using Bandgap Grading and Embedding Au Plasmonic Nanoparticles. <i>Plasmonics</i> , 2020, 15, 1173-1182.	3.4	23
14	Characterization and Gas-sensing Performance of Spray Pyrolysed In ₂ O ₃ Thin Films: Substrate Temperature Effect. <i>Transactions on Electrical and Electronic Materials</i> , 2012, 13, 111-115.	1.9	22
15	Synthesis and characterization of ZnO/TiO ₂ composite core/shell nanorod arrays by sol-gel method for organic solar cell applications. <i>Bulletin of Materials Science</i> , 2015, 38, 617-623.	1.7	20
16	Optical properties and thermal stability of solar selective absorbers based on Co-Al ₂ O ₃ cermets. <i>Chinese Journal of Physics</i> , 2017, 55, 876-885.	3.9	20
17	Fabrication and study of single-phase high-hole-mobility CZTS thin films for PV solar cell applications: Influence of stabilizer and thickness. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155741.	5.5	20
18	Efficiency Enhancement of CZTS Solar Cells Using Al Plasmonic Nanoparticles: The Effect of Size and Period of Nanoparticles. <i>Journal of Electronic Materials</i> , 2020, 49, 7168-7178.	2.2	19

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19	Point defects in two-dimensional BeO monolayer: a first-principles study on electronic and magnetic properties. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24301-24312.	2.8	19
20	Influence of air/N ₂ treatment on the structural, morphological and optoelectronic traits of nanostructured ZnO:Mn thin films. <i>Superlattices and Microstructures</i> , 2014, 65, 332-343.	3.1	18
21	Numerical solution of full fractional Duffing equations with Cubic-Quintic-Heptic nonlinearities. <i>AIMS Mathematics</i> , 2020, 5, 1621-1641.	1.6	16
22	Rapid Detection of Escherichia coli by β -Galactosidase Biosensor Based on ZnO NPs and MWCNTs: A Comparative Study. <i>Current Microbiology</i> , 2020, 77, 2633-2641.	2.2	12
23	Numerical solution of fractional Mathieu equations by using block-pulse wavelets. <i>Journal of Ocean Engineering and Science</i> , 2019, 4, 299-307.	4.3	11
24	Compositional evolution and surface-related phenomena effects in ZnS@SiO ₂ nanocomposite films. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 1377-1386.	2.3	10
25	Exploring low, moderate and heavy Al doping impacts on microstructure and optical attributes of nanostructured cadmium oxide thin films. <i>Superlattices and Microstructures</i> , 2014, 72, 172-185.	3.1	9
26	Performance enhancement of ultrathin graded Cu(InGa)Se ₂ solar cells through modification of the basic structure and adding antireflective layers. <i>Journal of Photonics for Energy</i> , 2020, 10, 1.	1.3	9
27	The effects of Mg incorporation and annealing temperature on the physicochemical properties and antibacterial activity against <i>Listeria monocytogenes</i> of ZnO nanoparticles. <i>Pramana - Journal of Physics</i> , 2017, 88, 1.	1.8	8
28	Performance improvement of ultra-thin CIGS solar cells with decrease in light loss by surface texturing. <i>Indian Journal of Physics</i> , 2021, 95, 2327-2334.	1.8	7
29	Numerical simulations of ultrathin CdTe solar cells with a ZnxCd _{1-x} window layer and a Cu ₂ O hole transport layer. <i>Journal of Computational Electronics</i> , 2021, 20, 2501-2510.	2.5	7
30	A fundamental study on the effects of nano-silver incorporation on the structure and luminescence properties of color centers in γ -alumina nanoparticles. <i>Journal of Luminescence</i> , 2017, 192, 910-918.	3.1	6
31	Efficiency enhancement of thin-film solar cell by implementation of double-absorber and BSF layers: the effect of thickness and carrier concentration. <i>Journal of Computational Electronics</i> , 2022, 21, 675-683.	2.5	6
32	Preparation and investigation of optical, structural, and morphological properties of nanostructured ZnO:Mn thin films. <i>Pramana - Journal of Physics</i> , 2013, 81, 331-341.	1.8	4
33	Significant Efficiency Enhancement in Ultrathin CZTS Solar Cells by Combining Al Plasmonic Nanostructures Array and Antireflective Coatings. <i>Plasmonics</i> , 2021, 16, 1375-1390.	3.4	4
34	Effect of pH on the Optical Properties of Doped CdS (Cu, Fe) Nanoparticles Incorporated in TG as the Capping Agent. <i>Acta Physica Polonica A</i> , 2014, 126, 713-717.	0.5	3
35	Investigation of the effect of band-edge nonparabolicity on the carrier transport in ITO thin films. <i>Journal of the Korean Physical Society</i> , 2014, 65, 487-490.	0.7	3
36	Optical modeling and electrical properties of cadmium oxide nanofilms: Developing a meta-heuristic calculation process model. <i>Journal of Applied Physics</i> , 2015, 117, 135303.	2.5	3

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37	SIMULATION AND IMPROVEMENT OF THE PERFORMANCE OF CdTe SOLAR CELL WITH ULTRATHIN ABSORBER LAYER. <i>Surface Review and Letters</i> , 2022, 29, .	1.1	2
38	A comparative ab initio study of the structural, mechanical, electronic and optical behaviors of ZnO:Ni thin films with nanometer scale. <i>Chinese Journal of Physics</i> , 2019, 57, 61-71.	3.9	1
39	Numerical Solution of Nonlinear Fractional Bratu Equation with Hybrid Method. <i>International Journal of Applied and Computational Mathematics</i> , 2020, 6, 1.	1.6	1
40	Numerical solution of strongly nonlinear full fractional duffing equation. <i>Journal of Interdisciplinary Mathematics</i> , 2020, 23, 1531-1551.	0.7	1
41	Influence of Fe concentration on the physicochemical properties and inactivation of <i>Pseudomonas aeruginosa</i> of ZnO nanoparticles. <i>Indian Journal of Physics</i> , 2021, 95, 857-863.	1.8	0