

# Ali Abdolazadeh Ziabari

## List of Publications by Year in descending order

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papers

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times ranked

1099  
citing authors

#	ARTICLE	IF	CITATIONS
1	SIMULATION AND IMPROVEMENT OF THE PERFORMANCE OF CdTe SOLAR CELL WITH ULTRATHIN ABSORBER LAYER. Surface Review and Letters, 2022, 29, .	1.1	2
2	Efficiency enhancement of thin-film solar cell by implementation of double-absorber and BSF layers: the effect of thickness and carrier concentration. Journal of Computational Electronics, 2022, 21, 675-683.	2.5	6
3	Performance improvement of ultra-thin CIGS solar cells with decrease in light loss by surface texturing. Indian Journal of Physics, 2021, 95, 2327-2334.	1.8	7
4	Influence of Fe concentration on the physicochemical properties and inactivation of Pseudomonas aeruginosa of ZnO nanoparticles. Indian Journal of Physics, 2021, 95, 857-863.	1.8	0
5	Point defects in two-dimensional BeO monolayer: a first-principles study on electronic and magnetic properties. Physical Chemistry Chemical Physics, 2021, 23, 24301-24312.	2.8	19
6	Significant Efficiency Enhancement in Ultrathin CZTS Solar Cells by Combining Al Plasmonic Nanostructures Array and Antireflective Coatings. Plasmonics, 2021, 16, 1375-1390.	3.4	4
7	Numerical simulations of ultrathin CdTe solar cells with a $Zn_xCd_{1-x}$ window layer and a Cu <sub>2</sub> O hole transport layer. Journal of Computational Electronics, 2021, 20, 2501-2510.	2.5	7
8	Numerical Solution of Nonlinear Fractional Bratu Equation with Hybrid Method. International Journal of Applied and Computational Mathematics, 2020, 6, 1.	1.6	1
9	Efficiency Enhancement of CZTS Solar Cells Using Al Plasmonic Nanoparticles: The Effect of Size and Period of Nanoparticles. Journal of Electronic Materials, 2020, 49, 7168-7178.	2.2	19
10	Numerical solution of strongly nonlinear full fractional duffing equation. Journal of Interdisciplinary Mathematics, 2020, 23, 1531-1551.	0.7	1
11	Rapid Detection of Escherichia coli by $\beta$ -Galactosidase Biosensor Based on ZnO NPs and MWCNTs: A Comparative Study. Current Microbiology, 2020, 77, 2633-2641.	2.2	12
12	Fabrication and study of single-phase high-hole-mobility CZTS thin films for PV solar cell applications: Influence of stabilizer and thickness. Journal of Alloys and Compounds, 2020, 842, 155741.	5.5	20
13	Efficiency Enhancement of Ultra-thin CIGS Solar Cells Using Bandgap Grading and Embedding Au Plasmonic Nanoparticles. Plasmonics, 2020, 15, 1173-1182.	3.4	23
14	Performance enhancement of ultrathin graded Cu(InGa)Se <sub>2</sub> solar cells through modification of the basic structure and adding antireflective layers. Journal of Photonics for Energy, 2020, 10, 1.	1.3	9
15	Numerical solution of full fractional Duffing equations with Cubic-Quintic-Heptic nonlinearities. AIMS Mathematics, 2020, 5, 1621-1641.	1.6	16
16	Numerical solution of fractional Mathieu equations by using block-pulse wavelets. Journal of Ocean Engineering and Science, 2019, 4, 299-307.	4.3	11
17	A comparative ab initio study of the structural, mechanical, electronic and optical behaviors of ZnO:Ni thin films with nanometer scale. Chinese Journal of Physics, 2019, 57, 61-71.	3.9	1
18	The effects of Mg incorporation and annealing temperature on the physicochemical properties and antibacterial activity against Listeria monocytogenes of ZnO nanoparticles. Pramana - Journal of Physics, 2017, 88, 1.	1.8	8

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19	Optical properties and thermal stability of solar selective absorbers based on Co-Al <sub>2</sub> O <sub>3</sub> cermets. Chinese Journal of Physics, 2017, 55, 876-885.	3.9	20
20	A fundamental study on the effects of nano-silver incorporation on the structure and luminescence properties of color centers in $\gamma$ -alumina nanoparticles. Journal of Luminescence, 2017, 192, 910-918.	3.1	6
21	First-principle calculation of the elastic, band structure, electronic states, and optical properties of Cu-doped ZnS nanolayers. Physica B: Condensed Matter, 2016, 501, 146-152.	2.7	26
22	Synthesis and Characterization of the Antibacterial Activity of Zinc Oxide Nanoparticles against Salmonella typhi. Acta Metallurgica Sinica (English Letters), 2016, 29, 601-608.	2.9	28
23	Optical modeling and electrical properties of cadmium oxide nanofilms: Developing a meta-heuristic calculation process model. Journal of Applied Physics, 2015, 117, 135303.	2.5	3
24	Synthesis and characterization of ZnO/TiO <sub>2</sub> composite core/shell nanorod arrays by sol-gel method for organic solar cell applications. Bulletin of Materials Science, 2015, 38, 617-623.	1.7	20
25	Synthesis of TiO <sub>2</sub> nanotube array thin films and determination of the optical constants using transmittance data. Superlattices and Microstructures, 2015, 77, 25-34.	3.1	23
26	Compositional evolution and surface-related phenomena effects in Zn-SiO <sub>2</sub> nanocomposite films. Applied Physics A: Materials Science and Processing, 2015, 118, 1377-1386.	2.3	10
27	Effect of pH on the Optical Properties of Doped CdS (Cu, Fe) Nanoparticles Incorporated in TG as the Capping Agent. Acta Physica Polonica A, 2014, 126, 713-717.	0.5	3
28	Investigation of the effect of band-edge nonparabolicity on the carrier transport in ITO thin films. Journal of the Korean Physical Society, 2014, 65, 487-490.	0.7	3
29	Exploring low, moderate and heavy Al doping impacts on microstructure and optical attributes of nanostructured cadmium oxide thin films. Superlattices and Microstructures, 2014, 72, 172-185.	3.1	9
30	Influence of air/N <sub>2</sub> treatment on the structural, morphological and optoelectronic traits of nanostructured ZnO:Mn thin films. Superlattices and Microstructures, 2014, 65, 332-343.	3.1	18
31	Preparation and investigation of optical, structural, and morphological properties of nanostructured ZnO:Mn thin films. Pramana - Journal of Physics, 2013, 81, 331-341.	1.8	4
32	Effects of the Cd:Zn:S molar ratio and heat treatment on the optical and photoluminescence properties of nanocrystalline CdZnS thin films. Materials Science in Semiconductor Processing, 2013, 16, 1629-1636.	4.0	40
33	Influence of Cu doping and post-heat treatment on the microstructure, optical properties and photoluminescence features of sol-gel derived nanostructured CdS thin films. Journal of Luminescence, 2013, 141, 121-129.	3.1	57
34	Surface morphology and optoelectronic studies of sol-gel derived nanostructured CdO thin films: heat treatment effect. Journal of Materials Science: Materials in Electronics, 2012, 23, 1628-1639.	2.2	40
35	Growth, characterization and studying of sol-gel derived CdS nanocrystalline thin films incorporated in polyethyleneglycol: Effects of post-heat treatment. Solar Energy Materials and Solar Cells, 2012, 105, 249-262.	6.2	160
36	Correlation between morphology and electro-optical properties of nanostructured CdO thin films: Influence of Al doping. Surface and Coatings Technology, 2012, 213, 15-20.	4.8	58

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37	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
38	Characterization and Gas-sensing Performance of Spray Pyrolysed In <sub>2</sub> O <sub>3</sub> Thin Films: Substrate Temperature Effect. <i>Transactions on Electrical and Electronic Materials</i> , 2012, 13, 111-115.	1.9	22
39	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
40	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
41	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