

Dk Dwivedi

List of Publications by Year in descending order

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papers

932
citations

430874

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times ranked

506
citing authors

#	ARTICLE	IF	CITATIONS
1	Contribution towards the selection of electron and hole transport layers for the development of highly efficient PbS colloidal quantum dot solar cell. <i>Optik</i> , 2022, 266, 169600.	2.9	9
2	Investigation of glass forming ability, linear and non-linear optical properties of Ge-Se-Te-Sb thin films. <i>Chemical Physics</i> , 2021, 541, 111021.	1.9	29
3	Numerical simulation of non-toxic In ₂ S ₃ /SnS ₂ buffer layer to enhance CZTS solar cells efficiency by optimizing device parameters. <i>Optik</i> , 2021, 227, 166087.	2.9	33
4	Optimization of photovoltaic solar cell performance via the earth abundant Zn ₃ P ₂ back surface field. <i>Optik</i> , 2021, 229, 166235.	2.9	19
5	Comparative study of the CZTS, CuSbS ₂ and CuSbSe ₂ solar photovoltaic cell with an earth-abundant non-toxic buffer layer. <i>Solar Energy</i> , 2021, 222, 175-185.	6.1	44
6	Designing hole conductor free tin-lead halide based all-perovskite heterojunction solar cell by numerical simulation. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 156, 110168.	4.0	20
7	Deposition and characterization of stannite Cu ₂ FeSn(SO ₄ 0.8Se _{0.2}) ₄ thin film for potential absorber layer in solar cell application. <i>Optical Materials</i> , 2021, 120, 111430.	3.6	2
8	Hole transporting layer optimization for an efficient lead-free double perovskite solar cell by numerical simulation. <i>Optical Materials</i> , 2021, 121, 111645.	3.6	36
9	Modeling of highly efficient and low cost CH ₃ NH ₃ Pb(1-xCl) _x based perovskite solar cell by numerical simulation. <i>Optical Materials</i> , 2020, 100, 109631.	3.6	132
10	Ethanol-induced gastric ulcer in rats and intervention of tert-butylhydroquinone: Involvement of Nrf2/HO-1 signalling pathway. <i>Human and Experimental Toxicology</i> , 2020, 39, 547-562.	2.2	56
11	Arsenic modified (Ge _{11.5} Te _{12.5} Se _{67.5}) _{100-x} compound for IR application. <i>Journal of Non-Crystalline Solids</i> , 2020, 547, 120309.	3.1	5
12	Modeling of CZTSSe solar photovoltaic cell for window layer optimization. <i>Optik</i> , 2020, 222, 165407.	2.9	29
13	Numerical modeling for earth-abundant highly efficient solar photovoltaic cell of non-toxic buffer layer. <i>Optical Materials</i> , 2020, 109, 110409.	3.6	17
14	Investigation of structural and optical properties of (GeS ₂) _{100-x} (Sb ₂ S ₃) _x (x = 15, 30, 45, 60) chalcogenide glasses for mid infrared applications. <i>Optik</i> , 2020, 218, 165041.	2.9	11
15	Numerical Study of Hole Transport Layer for Efficient Perovskite Solar Cell Using Copper Oxide. , 2020, , .		1
16	Contribution to sustainable and environmental friendly non-toxic CZTS solar cell with an innovative hybrid buffer layer. <i>Solar Energy</i> , 2020, 204, 748-760.	6.1	57
17	Impact of Sb incorporation on physical properties of selenium-based quaternary glassy alloys. <i>Physica B: Condensed Matter</i> , 2019, 572, 81-87.	2.7	9
18	Impact of Heat Treatment on The Structural and Optical Properties of Ge ₄ Se ₆₀ Te ₃₀ In ₆ Phase Change Thin Film. <i>Materials Today: Proceedings</i> , 2019, 17, 118-123.	1.8	2

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19	Theoretical investigation on enhancement of output performance of CZTSSe based solar cell. Solar Energy, 2019, 193, 442-451.	6.1	60
20	Structural and optical properties of $(\text{Ge}_{11.5}\text{Se}_{67.5}\text{Te}_{12.5})_{100-x}\text{Sbx}$ ($0 \leq x \leq 30$) chalcogenide glasses: A material for IR devices. Infrared Physics and Technology, 2019, 100, 109-116.	2.9	24
21	Study of dielectric relaxation and thermally activated a.c. conduction in multicomponent $\text{Ge}_{10-x}\text{Se}_{60}\text{Te}_{30}\text{In}_x$ ($0 \leq x \leq 6$) chalcogenide glasses using CBH model. Results in Physics, 2019, 12, 223-236.	4.1	54
22	Effect of thermal annealing on structural and optical properties of In doped Ge-Se-Te chalcogenide thin films. Materials Science-Poland, 2019, 37, 554-562.	1.0	13
23	Investigation on physical properties of polycrystalline nickel sulphide films grown by simple & economical screen-printing method. Optik, 2018, 156, 43-48.	2.9	8
24	Dielectric relaxation in glassy $\text{Se}_{90}\text{Cd}_6\text{In}_4$. Electronics Letters, 2016, 52, 1548-1550.	1.0	5
25	Structural, optical and electrical characterization of nanocrystalline CdO films for device applications. Optik, 2016, 127, 4254-4257.	2.9	16
26	Dielectric relaxation and AC conductivity studies of $\text{Se}_{90}\text{Cd}_{10-x}\text{In}_x$ glassy alloys. Journal of Asian Ceramic Societies, 2016, 4, 178-184.	2.3	35
27	Structural and optical properties of In doped $\text{Se}_{60}\text{Te}_{40}$ phase-change thin films: A material for optical data storage. Optical Materials, 2016, 52, 69-74.	3.6	34
28	Growth and characterization of $\text{Cd}_{0.8}\text{Zn}_{0.2}\text{S}$ thin films by spray pyrolysis method. Optik, 2015, 126, 3203-3205.	2.9	2
29	Effect of thermal annealing on the structural and optical properties of amorphous $\text{Se}_{75}\text{Te}_{25}\text{Sb}$ thin films by thermal evaporation method. Optik, 2015, 126, 635-639.	2.9	22
30	Effect of sintering aid (CdCl_2) on the optical and structural properties of CdZnS screen-printed film. Optik, 2014, 125, 1209-1211.	2.9	21
31	Study on structural, optical and electrical properties of $\text{CdS}_{0.5}\text{Se}_{0.5}$ thin films for photovoltaic applications. Optik, 2013, 124, 2345-2348.	2.9	32
32	Optical, structural and electrical properties of nanosized zinc oxide sintered films for photovoltaic applications. Science of Sintering, 2013, 45, 13-19.	1.4	9
33	Crystallographic, optical and electrical properties of low zinc content cadmium zinc sulphide composite thin films for photovoltaic applications. Journal of Alloys and Compounds, 2012, 512, 351-354.	5.5	29
34	Synthesis and characterization of screen-printed CdS films. Science of Sintering, 2011, 43, 335-341.	1.4	22
35	Estimation of thermodynamic properties of multicomponent systems on the basis of generalized hole theory. Journal of Molecular Liquids, 2010, 157, 158-161.	4.9	7
36	Thermodynamic properties of multicomponent systems and hole theory. Journal of Molecular Liquids, 2008, 141, 1-7.	4.9	10

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37	Computation of isothermal compressibility, thermal expansivity and ultrasonic velocity of binary liquid mixtures using hole theory. Journal of Molecular Liquids, 2007, 135, 65-71.	4.9	18