

# Dk Dwivedi

## List of Publications by Year in descending order

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37  
papers

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430874

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#	ARTICLE	IF	CITATIONS
1	Modeling of highly efficient and low cost CH <sub>3</sub> NH <sub>3</sub> Pb(I <sub>1-x</sub> Cl <sub>x</sub> ) <sub>3</sub> based perovskite solar cell by numerical simulation. <i>Optical Materials</i> , 2020, 100, 109631.	3.6	132
2	Theoretical investigation on enhancement of output performance of CZTSSe based solar cell. <i>Solar Energy</i> , 2019, 193, 442-451.	6.1	60
3	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
4	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
5	Study of dielectric relaxation and thermally activated a.c. conduction in multicomponent Ge <sub>10</sub> <sup>x</sup> Se <sub>60</sub> Te <sub>30</sub> In <sub>x</sub> (0 ≤ x ≤ 6) chalcogenide glasses using CBH model. <i>Results in Physics</i> , 2019, 12, 223-236.	4.1	54
6	Comparative study of the CZTS, CuSbS <sub>2</sub> and CuSbSe <sub>2</sub> solar photovoltaic cell with an earth-abundant non-toxic buffer layer. <i>Solar Energy</i> , 2021, 222, 175-185.	6.1	44
7	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
8	Dielectric relaxation and AC conductivity studies of Se <sub>90</sub> Cd <sub>10</sub> <sup>x</sup> In <sub>x</sub> glassy alloys. <i>Journal of Asian Ceramic Societies</i> , 2016, 4, 178-184.	2.3	35
9	Structural and optical properties of In doped Se <sub>4</sub> Te phase-change thin films: A material for optical data storage. <i>Optical Materials</i> , 2016, 52, 69-74.	3.6	34
10	Numerical simulation of non-toxic In <sub>2</sub> S <sub>3</sub> /SnS <sub>2</sub> buffer layer to enhance CZTS solar cells efficiency by optimizing device parameters. <i>Optik</i> , 2021, 227, 166087.	2.9	33
11	Study on structural, optical and electrical properties of CdS <sub>0.5</sub> Se <sub>0.5</sub> thin films for photovoltaic applications. <i>Optik</i> , 2013, 124, 2345-2348.	2.9	32
12	Crystallographic, optical and electrical properties of low zinc content cadmium zinc sulphide composite thin films for photovoltaic applications. <i>Journal of Alloys and Compounds</i> , 2012, 512, 351-354.	5.5	29
13	Modeling of CZTSSe solar photovoltaic cell for window layer optimization. <i>Optik</i> , 2020, 222, 165407.	2.9	29
14	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
15	Structural and optical properties of (Ge <sub>11.5</sub> Se <sub>67.5</sub> Te <sub>12.5</sub> ) <sub>100</sub> <sup>x</sup> Sb <sub>x</sub> (0 ≤ x ≤ 30) chalcogenide glasses: A material for IR devices. <i>Infrared Physics and Technology</i> , 2019, 100, 109-116.	2.9	24
16	Effect of thermal annealing on the structural and optical properties of amorphous Se <sub>75</sub> Te <sub>25</sub> Sb thin films by thermal evaporation method. <i>Optik</i> , 2015, 126, 635-639.	2.9	22
17	Synthesis and characterization of screen-printed CdS films. <i>Science of Sintering</i> , 2011, 43, 335-341.	1.4	22
18	Effect of sintering aid (CdCl <sub>2</sub> ) on the optical and structural properties of CdZnS screen-printed film. <i>Optik</i> , 2014, 125, 1209-1211.	2.9	21

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19	Designing hole conductor free tin-lead halide based all-perovskite heterojunction solar cell by numerical simulation. Journal of Physics and Chemistry of Solids, 2021, 156, 110168.	4.0	20
20	Optimization of photovoltaic solar cell performance via the earth abundant Zn <sub>3</sub> P <sub>2</sub> back surface field. Optik, 2021, 229, 166235.	2.9	19
21	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
22	Numerical modeling for earth-abundant highly efficient solar photovoltaic cell of non-toxic buffer layer. Optical Materials, 2020, 109, 110409.	3.6	17
23	Structural, optical and electrical characterization of nanocrystalline CdO films for device applications. Optik, 2016, 127, 4254-4257.	2.9	16
24	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
25	Investigation of structural and optical properties of (GeS <sub>2</sub> ) <sub>100-x</sub> (Sb <sub>2</sub> S <sub>3</sub> ) <sub>x</sub> (x = 15, 30, 45, 60) chalcogenide glasses for mid infrared applications. Optik, 2020, 218, 165041.	2.9	11
26	Thermodynamic properties of multicomponent systems and hole theory. Journal of Molecular Liquids, 2008, 141, 1-7.	4.9	10
27	Impact of Sb incorporation on physical properties of selenium-based quaternary glassy alloys. Physica B: Condensed Matter, 2019, 572, 81-87.	2.7	9
28	Optical, structural and electrical properties of nanosized zinc oxide sintered films for photovoltaic applications. Science of Sintering, 2013, 45, 13-19.	1.4	9
29	Contribution towards the selection of electron and hole transport layers for the development of highly efficient PbS colloidal quantum dot solar cell. Optik, 2022, 266, 169600.	2.9	9
30	Investigation on physical properties of polycrystalline nickel sulphide films grown by simple & economical screen-printing method. Optik, 2018, 156, 43-48.	2.9	8
31	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
32	Dielectric relaxation in glassy Se <sub>90</sub> Cd <sub>6</sub> In <sub>4</sub> . Electronics Letters, 2016, 52, 1548-1550.	1.0	5
33	Arsenic modified (Ge <sub>11.5</sub> Te <sub>12.5</sub> Se <sub>67.5</sub> ) <sub>100-x</sub> compound for IR application. Journal of Non-Crystalline Solids, 2020, 547, 120309.	3.1	5
34	Growth and characterization of Cd <sub>0.8</sub> Zn <sub>0.2</sub> S thin films by spray pyrolysis method. Optik, 2015, 126, 3203-3205.	2.9	2
35	Impact of Heat Treatment on The Structural and Optical Properties of Ge <sub>4</sub> Se <sub>60</sub> Te <sub>30</sub> In <sub>6</sub> Phase Change Thin Film. Materials Today: Proceedings, 2019, 17, 118-123.	1.8	2
36	Deposition and characterization of stannite Cu <sub>2</sub> FeSn(SO <sub>4</sub> -8Se <sub>0.2</sub> ) <sub>4</sub> thin film for potential absorber layer in solar cell application. Optical Materials, 2021, 120, 111430.	3.6	2

#	ARTICLE	IF	CITATIONS
37	Numerical Study of Hole Transport Layer for Efficient Perovskite Solar Cell Using Copper Oxide. , 2020, , .		1