Amit Soni

List of Publications by Year
in descending order

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46	468	933264	713332
papers	citations	10 h-index	21 g-index

50	50	50	341
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revealing optoelectronic and transport properties of potential perovskites Cs2PdX6 (Xâ€¯=â€¯Cl, Br): A probe from density functional theory (DFT). Solar Energy, 2018, 162, 336-343.	2.9	123
2	Advancements, frontiers and analysis of metal oxide semiconductor, dye, electrolyte and counter electrode of dye sensitized solar cell. Solar Energy, 2022, 233, 378-407.	2.9	52
3	Electronic structure and optical properties of CuGaS2 and CuInS2 solar cell materials. Solar Energy, 2010, 84, 1481-1489.	2.9	49
4	Structural, electronic and optical modeling of perovskite solar materials ASnX3 (A = Rb, K; X = Cl, Br): First principle investigations. Materials Chemistry and Physics, 2021, 262, 124284.	2.0	34
5	Electronic and Optical Modeling of Solar Cell Compounds CuGaSe2 and CuInSe2. Journal of Electronic Materials, 2011, 40, 2197-2208.	1.0	31
6	Performance analysis of TiO2 based dye sensitized solar cell prepared by screen printing and doctor blade deposition techniques. Solar Energy, 2021, 226, 9-19.	2.9	26
7	Investigating effect of strain on electronic and optical properties of lead free double perovskite Cs2AgInCl6 solar cell compound: A first principle calculation. Journal of Alloys and Compounds, 2020, 817, 152758.	2.8	25
8	Optoelectronic behavioral study of defect-chalcopyrite semiconductors XGa 2 Te 4 (X = Zn, Cd). Materials Research Bulletin, 2017, 86, 131-138.	2.7	23
9	Structural and optical investigations of ZnGa2X4 (XÂ=ÂS, Se) compounds for solar photovoltaic applications. Materials Chemistry and Physics, 2017, 199, 257-264.	2.0	20
10	Density functional investigations to study effect of M = (Ge, Sn) doping on opto-electronic response of ZnSi(1 â€“ x)MxP2. Optik, 2020, 208, 164570.	1.4	12
11	First principle investigations of structural, electronic, and optical properties of Nâ€•and Snâ€doped <scp> MgSiP ₂ </scp>. International Journal of Energy Research, 2022, 46, 1978-1986.	2.2	8
12	Ab-initio investigations for structural, mechanical, optoelectronic, and thermoelectric properties of Ba2SbXO6 (X Nb, Ta) compounds. Journal of Alloys and Compounds, 2022, 893, 162332.	2.8	7
13	Optoelectronic Analysis of CdGa₂X₄ (X= S, Se): A Promising Material for Solar Cells. Materials Science Forum, 0, 900, 69-73.	0.3	6
14	Use of chalcopyrite semiconductors CuXSe₂(X=Al, Ga and In) in solar cells: a theoretical study. International Journal of Sustainable Energy, 2013, 32, 18-26.	1.3	5
15	Electronic structure of Gd based transition metal antimonides GdTSb (T = Ni, Pt). AIP Conference Proceedings, 2018, , .	0.3	5
16	Consumer social responsibility (CnSR): antecedents and tool validation. World Journal of Science Technology and Sustainable Development, 2021, 18, 422-437.	2.0	4
17	Revealing the impact of aluminum doping on opto-electronic properties of CuGaSe2 thin films flexible solar cells - A DFT study. AIP Conference Proceedings, 2020, , .	0.3	4
18	Electronic and Optical Properties of ZnAl₂Se₄ and Its Use in Solar Cell. Macromolecular Symposia, 2017, 376, 1600203.	0.4	3

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19	Electronic, structural and optical features for ternary ZnSnAs2 compound: A first principleâ€™s density functional investigation. Materials Today: Proceedings, 2019, 19, 564-567.	0.9	3
20	Structure dependent electronic and optical properties of Cu2ZnGeX4 (X=S, Se) solar cell compounds. Optik, 2019, 182, 802-809.	1.4	3
21	Analysis of LED Driver Topologies with Respect to Power Factor and THD. Light & Engineering, 2018, , 63-68.	0.1	3
22	Electronic Structure and Optical Properties of Solar Cell Materials CuAlX2 (X=S, Se). , 2012, , .		2
23	Effect of power factor improvement on switching life of self ballasted fluorescent lamps. , 2015, , .		2
24	Cost benefit modeling of AB₂X₄ (A=Cd; B=Ga; X=S, Se) solar photovoltaic (PV) materials. IOP Conference Series: Materials Science and Engineering, 2019, 594, 012030.	0.3	2
25	Device Modeling and Characteristics of Solution Processed Perovskite Solar Cell at Ambient Conditions. Lecture Notes in Electrical Engineering, 2020, , 981-988.	0.3	2
26	Recent Development in Perovskite Solar Cell Based on Planar Structures. Lecture Notes in Electrical Engineering, 2020, , 1039-1046.	0.3	2
27	DFT Investigations of BeSnN₂ Chalcopyrite Compound for Optoelectronic Applications. IOP Conference Series: Materials Science and Engineering, 2022, 1225, 012020.	0.3	2
28	Band gap tuning in MgGeN2 chalcopyrite with Sr and Sn doping: An ab-initio investigation. Materials Science in Semiconductor Processing, 2022, 144, 106603.	1.9	2
29	A systematic approach to investigate electronic and optical property of CuGaS<inf>2</inf> using DFT. , 2016, , .		1
30	Parameters affecting the switching life in HPF self ballasted lamps. , 2016, , .		1
31	Ab-initio investigations for opto-electronic response of (Cd, Zn)Ga2Te4: Promising solar PV materials. AIP Conference Proceedings, 2018, , .	0.3	1
32	Opto-electronic Analysis of Cs<inf>2</inf>PdCl<inf>2</inf>Br<inf>4</inf> Perovskites Compounds for Photovoltaic Applications. , 2018, , .		1
33	Investigation of structural and optoelectronic properties of ZnSi1-xGexP2 (x = 0, 0.125) compound using density functional theory. AIP Conference Proceedings, 2020, , .	0.3	1
34	Revealing Structural and Optoelectronic Properties for Bi-Doped CuGaS2 Chalcopyrite: A Density Functional Investigation. Lecture Notes in Electrical Engineering, 2021, , 171-177.	0.3	1
35	Mitigation of Power Quality for Wind Energy Using Transmission Line Based on D-STATCOM. Lecture Notes in Electrical Engineering, 2020, , 927-935.	0.3	1
36	Computational investigations of electronic and optical properties of ZnGa<inf>2</inf>X4 (X= S, Se): A promising solar PV material. , 2017, , .		0

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37	Opto-electronic analysis of promising photovoltaic Cs<inf>2</inf>PdCl<inf>4</inf>Br<inf>2</inf>: An upcoming perovskite material. , 2017, , .		0
38	Revealing structural and opto-electronic performance of photosensitive chalcopyrite CdAl<inf>2</inf>Se<inf>4</inf>: First-principle Modified Becke-Johnson (mBJ) observations. , 2018, , .		0
39	Electronic and Optical Response of Chalcopyrites Cu2InMSe4 (Mâ€‰=â€‰Al, Ga): First Principles Investigation for Use in Solar Cells. Journal of Electronic Materials, 2019, 48, 6521-6528.	1.0	0
40	Theoretical simulation of optoelectronic and structural characteristics of HgCN2 by DFT approach. Materials Today: Proceedings, 2021, 43, 3148-3151.	0.9	0
41	Review on Optoelectronic Response of Emerging Solar Photovoltaic Materials. Advances in Sustainability Science and Technology, 2021, , 79-97.	0.4	0
42	Investigation of Bulk, Doped and Thin Film Solar Cells: A Review Article. Advances in Sustainability Science and Technology, 2021, , 1-21.	0.4	0
43	LED Driver Design and Thermal Management. Lecture Notes in Electrical Engineering, 2020, , 1-8.	0.3	0
44	Costâ€“Benefit Calculation Using AB2X4 (Aâ€‰=â€‰Zn, Cd; Bâ€‰=â€‰Ga; Xâ€‰=â€‰Te): A Promising Material for Solar Cells. Lecture Notes in Electrical Engineering, 2020, , 313-317.	0.3	0
45	Optical and electronic analysis of Al doped CuInSe2 thin film based flexible solar cells. AIP Conference Proceedings, 2020, , .	0.3	0
46	Structural and Optical Characteristics of HgSiP₂ Chalcopyrite: DFT. , 2022, , .		0