

S Senthilarasu

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,192
citations

535685

17
h-index

425179

34
g-index

35
all docs

35
docs citations

35
times ranked

1360
citing authors

#	ARTICLE	IF	CITATIONS
1	Employing CdS nanoparticles as an adsorbent for the removal of different dosages of hexavalent Cr (VI) from aqueous solution. <i>Materials Letters</i> , 2022, 311, 131602.	1.3	3
2	High Open-Circuit Voltage in Double Perovskite Oxide A ₂ NdSbO ₆ (A = Ba, Sr) Photoanode-Based Dye-Sensitized Solar Cells. <i>Journal of Electronic Materials</i> , 2022, 51, 4281-4287.	1.0	3
3	Morphology modulated brookite TiO ₂ and BaSnO ₃ as alternative electron transport materials for enhanced performance of carbon perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 446, 137378.	6.6	20
4	Advances and limitations of increasing solar irradiance for concentrating photovoltaics thermal system. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110517.	8.2	37
5	Experimental and numerical study on the effect of multiple phase change materials thermal energy storage system. <i>Journal of Energy Storage</i> , 2021, 36, 102226.	3.9	27
6	Nanostructured perovskite oxides for dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 493001.	1.3	6
7	Intriguing CeO ₂ @TiO ₂ hybrid nanostructured photoanode resulting up to 46% efficiency enhancement for dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2021, 272, 125036.	2.0	9
8	A review on the classification of organic/inorganic/carbonaceous hole transporting materials for perovskite solar cell application. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2526-2557.	2.3	150
9	Thermal performance of semitransparent CdTe BIPV window at temperate climate. <i>Solar Energy</i> , 2020, 195, 536-543.	2.9	77
10	Evaluation of thermal performance for a smart switchable adaptive polymer dispersed liquid crystal (PDLC) glazing. <i>Solar Energy</i> , 2020, 195, 185-193.	2.9	109
11	Effect of Nafion loading and the novel flow field designs on innovative anode electrocatalyst for improved Direct Methanol Fuel cells performance. <i>Materials Letters</i> , 2020, 276, 128222.	1.3	8
12	Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system. <i>Materials Letters</i> , 2020, 277, 128332.	1.3	15
13	Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application. <i>Materials Letters</i> , 2020, 275, 128145.	1.3	9
14	Highly conductive double perovskite oxides A ₂ LuTaO ₆ (A = Ba, Sr, Ca) as promising photoanode material for dye sensitized solar cells. <i>Materials Letters</i> , 2020, 276, 128220.	1.3	15
15	Impact of different light induced effect on organic hole-transporting layer in perovskite solar cells. <i>Materials Letters</i> , 2020, 268, 127568.	1.3	12
16	Synergistic effect of nanoflower-like CdS for removal of highly toxic aqueous Cr(VI). <i>Materials Letters</i> , 2020, 270, 127734.	1.3	13
17	An analytical indoor experimental study on the effect of soiling on PV, focusing on dust properties and PV surface material. <i>Solar Energy</i> , 2020, 203, 46-68.	2.9	101
18	Indoor and outdoor characterization of concentrating photovoltaic attached to multi-layered microchannel heat sink. <i>Solar Energy</i> , 2020, 202, 55-72.	2.9	23

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19	Perovskite Solar Cells: A Porous Graphitic Carbon based Hole Transporter/Counter Electrode Material Extracted from an Invasive Plant Species Eichhornia Crassipes. Scientific Reports, 2020, 10, 6835.	1.6	38
20	Methods of estimations of the band gap for kesterite Cu ₂ ZnSnS(Se) ₄ . Materials Today: Proceedings, 2020, 33, 2495-2498.	0.9	1
21	Evaluation of concentrating photovoltaic performance under different homogeniser materials. Materials Letters, 2019, 241, 219-222.	1.3	4
22	Evaluation of solar factor using spectral analysis for CdTe photovoltaic glazing. Materials Letters, 2019, 237, 332-335.	1.3	26
23	Experimental and Numerical Thermal Analysis of Multi-Layered Microchannel Heat Sink for Concentrating Photovoltaic Application. Energies, 2019, 12, 122.	1.6	31
24	Jet-nebulizer-spray coated copper zinc tin sulphide film for low cost platinum-free electrocatalyst in solar cells. Materials Letters, 2018, 220, 122-125.	1.3	14
25	Perforated BaSnO ₃ Nanorods Exhibiting Enhanced Efficiency in Dye Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 3299-3310.	3.2	42
26	Nickel sulphide-carbon composite hole transporting material for (CH ₃ NH ₃ PbI ₃) planar heterojunction perovskite solar cell. Materials Letters, 2018, 221, 283-288.	1.3	26
27	Charge transfer mechanics in transparent dye-sensitized solar cells under low concentration. Materials Letters, 2018, 222, 78-81.	1.3	9
28	Electricity enhancement and thermal energy production from concentrated photovoltaic integrated with a 3-layered stacked micro-channel heat sink. AIP Conference Proceedings, 2018, , .	0.3	4
29	Conjugate refractive-reflective based building integrated photovoltaic system. Materials Letters, 2018, 228, 25-28.	1.3	7
30	A >3000 suns high concentrator photovoltaic design based on multiple Fresnel lens primaries focusing to one central solar cell. Solar Energy, 2018, 169, 457-467.	2.9	55
31	The Performance of CH ₃ NH ₃ PbI ₃ - Nanoparticles based " Perovskite Solar Cells Fabricated by Facile Powder press Technique. Materials Research Bulletin, 2018, 108, 61-72.	2.7	17
32	Thermal analysis of a multi-layer microchannel heat sink for cooling concentrator photovoltaic (CPV) cells. AIP Conference Proceedings, 2017, , .	0.3	15
33	Conjugate refractive-reflective homogeniser in a 500Å— Cassegrain concentrator: design and limits. IET Renewable Power Generation, 2016, 10, 440-447.	1.7	8
34	Theoretical investigation considering manufacturing errors of a high concentrating photovoltaic of cassegrain design and its experimental validation. Solar Energy, 2016, 131, 235-245.	2.9	38
35	Optics for concentrating photovoltaics: Trends, limits and opportunities for materials and design. Renewable and Sustainable Energy Reviews, 2016, 60, 394-407.	8.2	220