

An Al-Shamani

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,510
citations

304743

22
h-index

197818

49
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68
all docs

68
docs citations

68
times ranked

2965
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitic carbon nitride (g-C ₃ N ₄) electrodes for energy conversion and storage: a review on photoelectrochemical water splitting, solar cells and supercapacitors. Journal of Materials Chemistry A, 2018, 6, 22346-22380.	10.3	244
2	An experimental investigation of SiC nanofluid as a base-fluid for a photovoltaic thermal PV/T system. Energy Conversion and Management, 2017, 142, 547-558.	9.2	240
3	Prospects of life cycle assessment of renewable energy from solar photovoltaic technologies: A review. Renewable and Sustainable Energy Reviews, 2018, 96, 11-28.	16.4	236
4	Experimental studies of rectangular tube absorber photovoltaic thermal collector with various types of nanofluids under the tropical climate conditions. Energy Conversion and Management, 2016, 124, 528-542.	9.2	187
5	The architecture of the electron transport layer for a perovskite solar cell. Journal of Materials Chemistry C, 2018, 6, 682-712.	5.5	172
6	A review of organic small molecule-based hole-transporting materials for meso-structured organic-inorganic perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 15788-15822.	10.3	150
7	Experimental investigation of jet array nanofluids impingement in photovoltaic/thermal collector. Solar Energy, 2017, 144, 321-334.	6.1	149
8	Nanofluids for improved efficiency in cooling solar collectors – A review. Renewable and Sustainable Energy Reviews, 2014, 38, 348-367.	16.4	145
9	The role of climatic-design-operational parameters on combined PV/T collector performance: A critical review. Renewable and Sustainable Energy Reviews, 2016, 57, 602-647.	16.4	91
10	Thermal and hydraulic characteristics of turbulent nanofluids flow in a rib-groove channel. International Communications in Heat and Mass Transfer, 2012, 39, 1584-1594.	5.6	87
11	Enhancement heat transfer characteristics in the channel with Trapezoidal rib-groove using nanofluids. Case Studies in Thermal Engineering, 2015, 5, 48-58.	5.7	74
12	Design characteristics of corrugated trapezoidal plate heat exchangers using nanofluids. Chemical Engineering and Processing: Process Intensification, 2015, 87, 88-103.	3.6	74
13	Mathematical and experimental evaluation of thermal and electrical efficiency of PV/T collector using different water based nano-fluids. Energy, 2018, 145, 770-792.	8.8	63
14	The role of enhancement techniques on heat and mass transfer characteristics of shell and tube spray evaporator: a detailed review. Applied Thermal Engineering, 2015, 75, 923-940.	6.0	49
15	Enhancement aspects of single stage absorption cooling cycle: A detailed review. Renewable and Sustainable Energy Reviews, 2017, 77, 1010-1045.	16.4	43
16	Enhance heat transfer in the channel with V-shaped wavy lower plate using liquid nanofluids. Case Studies in Thermal Engineering, 2015, 5, 13-23.	5.7	36
17	Progress towards highly stable and lead-free perovskite solar cells. Materials for Renewable and Sustainable Energy, 2018, 7, 1.	3.6	31
18	Environmental Impact and Levelised Cost of Energy Analysis of Solar Photovoltaic Systems in Selected Asia Pacific Region: A Cradle-to-Grave Approach. Sustainability, 2021, 13, 396.	3.2	27

#	ARTICLE	IF	CITATIONS
19	Performance enhancement of ejector-absorption cooling cycle by re-arrangement of solution streamlines and adding RHE. Applied Thermal Engineering, 2015, 77, 65-75.	6.0	26
20	Heterojunction Cr ₂ O ₃ /CuO:Ni photocathodes for enhanced photoelectrochemical performance. RSC Advances, 2016, 6, 56885-56891.	3.6	25
21	Fabrication of Cu ₂ SnS ₃ thin film solar cells by sulphurization of sequentially sputtered Sn/CuSn metallic stacked precursors. Solar Energy, 2019, 177, 262-273.	6.1	24
22	Performance enhancement of photovoltaic grid-connected system using PVT panels with nanofluid. Solar Energy, 2017, 150, 38-48.	6.1	23
23	Experimental evaluation of single stage ejector-absorption cooling cycle under different design configurations. Solar Energy, 2017, 155, 130-141.	6.1	19
24	Thermodynamic analysis of new concepts for enhancing cooling of PV panels for grid-connected PV systems. Journal of Thermal Analysis and Calorimetry, 2019, 136, 147-157.	3.6	19
25	Process optimisation for n-type Bi ₂ Te ₃ films electrodeposited on flexible recycled carbon fibre using response surface methodology. Journal of Materials Science, 2017, 52, 11467-11481.	3.7	18
26	Prospects of Cu ₂ ZnSnS ₄ (CZTS) solar cells from numerical analysis. , 2010, , .		17
27	Environmental performance of window-integrated systems using dye-sensitised solar module technology in Malaysia. Solar Energy, 2019, 187, 379-392.	6.1	15
28	A novel and stable way for energy harvesting from Bi ₂ Te ₃ Se alloy based semitransparent photo-thermoelectric module. Journal of Alloys and Compounds, 2020, 849, 156702.	5.5	14
29	Prospects of Ternary Cd _{1-x} Zn _x S as an Electron Transport Layer and Associated Interface Defects in a Planar Lead Halide Perovskite Solar Cell via Numerical Simulation. Journal of Electronic Materials, 2018, 47, 3051-3058.	2.2	13
30	Synthesis of sphere-like-crystal CdS powder and thin films using chemical residue in chemical bath deposition (CBD) for thin film solar cell application. Solar Energy, 2018, 173, 120-125.	6.1	13
31	Evaluating ejector efficiency working under intermediate pressure of flash tank-absorption cooling cycle: Parametric study. Chemical Engineering and Processing: Process Intensification, 2015, 95, 222-234.	3.6	12
32	Correlation of simulation and experiment for perovskite solar cells with MoS ₂ hybrid-HTL structure. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	11
33	Design of a cost-efficient solar energy based electrical power generation system for a remote Island - Pulau Perhentian Besar in Malaysia. , 2013, , .		10
34	Evaluation of solar-assisted absorption refrigeration cycle by using a multi-ejector. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1477-1481.	3.6	10
35	Recent Issues and Configuration Factors in Perovskite-Silicon Tandem Solar Cells towards Large Scaling Production. Nanomaterials, 2021, 11, 3186.	4.1	10
36	Microcontroller based smart charge controller for standalone solar photovoltaic power systems. , 2009, , .		9

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37	A new optimization approach for shell and tube heat exchangers by using electromagnetism-like algorithm (EM). Heat and Mass Transfer, 2016, 52, 2621-2634.	2.1	9
38	High Quality CdS Thin Film Growth by Avoiding Anomalies in Chemical Bath Deposition for Large Area Thin Film Solar Cell Application. Journal of Nanoscience and Nanotechnology, 2015, 15, 9240-9245.	0.9	8
39	Investigation of rheological and corrosion properties of graphene-based eutectic salt. Journal of Materials Science, 2018, 53, 692-707.	3.7	8
40	Benzodithiazole-Based Hole-Transporting Material for Efficient Perovskite Solar Cells. Asian Journal of Organic Chemistry, 2018, 7, 2497-2503.	2.7	8
41	Fabrication and Microelectronic Properties of Hybrid Organic-Inorganic (poly(9,9)-Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 2020, 10, 7974.	2.5	8
42	Energy levels of natural sensitizers extracted from rengas (Gluta spp.) and mengkulang (Heritiera Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3.6	3.6	7
43	Low Temperature Fabrication of Transparent Conductive Electrode With High Ultraviolet Transmittance Down to Wavelength of 250nm. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800441.	2.4	7
44	An Overview of the Strategies for Tin Selenide Advancement in Thermoelectric Application. Micromachines, 2021, 12, 1463.	2.9	7
45	A numerical analysis on CdS:O window layer for higher efficiency CdTe solar cells. , 2009, , .		6
46	Multifunctional organic shockproof flexible sensors based on a composite of nickel phthalocyanine colourant, carbon nanotubes and rubber created with rubbing-in technology. Coloration Technology, 2022, 138, 176-183.	1.5	6
47	Optoelectronic and morphology properties of perovskite/silicon interface layer for tandem solar cell application. Surface and Interface Analysis, 2020, 52, 422-432.	1.8	6
48	Long standing tracheal foreign body in children: A case report. Egyptian Journal of Ear, Nose, Throat and Allied Sciences, 2014, 15, 57-59.	0.1	5
49	Zn^{inf}x<sup>/sup>Cd^{inf}1−x<sup>/sup>S as prospective window layer in CdTe thin film solar cells from numerical analysis. , 2011, , .		4
50	Flexible longitudinal and transversal displacement sensors based on a composite of CI Disperse Orange 25 and carbon nanotubes. Coloration Technology, 2022, 138, 90-96.	1.5	4
51	Morphological, Optical and Electrical Analysis of Ag Polymer-Nickel Low Temperature Top Electrode in Silicon Solar Cell for Tandem Application. Silicon, 2022, 14, 12421-12435.	3.3	4
52	Improving Ag^{inf}TiO₂ nanocompositesTM current density by TiCl₄ pretreated on FTO glass for dye-sensitised solar cells. Micro and Nano Letters, 2021, 16, 381-386.	1.3	3
53	Performance-Enhancing Sulfur-Doped TiO2 Photoanodes for Perovskite Solar Cells. Applied Sciences (Switzerland), 2022, 12, 429.	2.5	3
54	Investigation of different buffer layers, front and back contacts for CdS/CdTe PV from numerical analysis. , 2009, , .		2

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55	Mechanical design and analysis of innovative integrated circuit test socket. , 2011, , .		2
56	Numerical analysis of hybrid perovskite solar cells using inorganic hole conducting material. , 2015, , .		2
57	Characterizations of natural dye from garcinia mangostana with graphene oxide (GO) as sensitizer in dye-sensitizer solar cells. AIP Conference Proceedings, 2017, , .	0.4	2
58	Characterization of perovskite layer on various nanostructured silicon wafer. AIP Conference Proceedings, 2017, , .	0.4	2
59	Modeling and simulation of highly efficient ultra-thin CIGS solar cell with MoSe ₂ tunnel. , 2017, , .		2
60	W _{Ta} ₃₇ O _{95.487} Nanocatalyst for Pollutant Degradation. Journal of Physical Chemistry C, 2021, 125, 27148-27158.	3.1	2
61	Physical and optical properties of In ₂ S ₃ thin films deposited by thermal evaporation technique for CIGS solar cells. , 2011, , .		1
62	Theoretical Study of New Combined Absorption-Ejector Refrigeration System. IOP Conference Series: Materials Science and Engineering, 2015, 88, 012059.	0.6	1
63	Ambient fabrication of perovskite solar cells through delay-deposition technique. Materials for Renewable and Sustainable Energy, 2021, 10, 1.	3.6	1
64	Analysis of Spectral Transmission in Si Solar Cell with Pyramidal Texturization by Using PC3S Simulation. Silicon, 0, , 1.	3.3	1
65	Enhancing the efficiency of CdTe thin film solar cells by inserting novel back contact buffer layers. , 2009, , .		0
66	Study of heat transfer due to turbulent flow of nanofluids through rib-groove channel. IOP Conference Series: Materials Science and Engineering, 2015, 88, 012017.	0.6	0
67	Properties of zinc tin oxide thin film by aerosol assisted chemical vapor deposition (AACVD). AIP Conference Proceedings, 2018, , .	0.4	0