

Suhaila Sepeai

List of Publications by Year in descending order

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44
papers

751
citations

933447

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526287

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times ranked

1074
citing authors

#	ARTICLE	IF	CITATIONS
1	Prospects of life cycle assessment of renewable energy from solar photovoltaic technologies: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 11-28.	16.4	236
2	A review of semiconductor materials as sensitizers for quantum dot-sensitized solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 397-407.	16.4	163
3	Silicon back contact solar cell configuration: A pathway towards higher efficiency. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 1516-1532.	16.4	57
4	Quantum dots processed by SILAR for solar cell applications. <i>Solar Energy</i> , 2018, 163, 256-270.	6.1	56
5	Prospects and challenges of perovskite type transparent conductive oxides in photovoltaic applications. Part I "Material developments. <i>Solar Energy</i> , 2016, 137, 371-378.	6.1	34
6	Progress towards highly stable and lead-free perovskite solar cells. <i>Materials for Renewable and Sustainable Energy</i> , 2018, 7, 1.	3.6	31
7	Improvement of white organic light emitting diode performances by an annealing process. <i>Thin Solid Films</i> , 2009, 517, 4679-4683.	1.8	25
8	Graphene dispersion as a passivation layer for the enhancement of perovskite solar cell stability. <i>Materials Chemistry and Physics</i> , 2021, 257, 123798.	4.0	17
9	Environmental performance of window-integrated systems using dye-sensitised solar module technology in Malaysia. <i>Solar Energy</i> , 2019, 187, 379-392.	6.1	15
10	Model development of monolithic tandem silicon-perovskite solar cell by SCAPS simulation. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	13
11	Correlation of simulation and experiment for perovskite solar cells with MoS ₂ hybrid-HTL structure. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	11
12	Recent Issues and Configuration Factors in Perovskite-Silicon Tandem Solar Cells towards Large Scaling Production. <i>Nanomaterials</i> , 2021, 11, 3186.	4.1	10
13	Energy levels of natural sensitizers extracted from rengas (<i>Gluta spp.</i>) and mengkulang (<i>Heritiera</i>) Tj ETQq1 1 0.784314 rgBT ₇ Overlo	3.6	7
14	Self-cleaning property of graphene oxide/TiO ₂ thin film. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	7
15	Compatibility between compact and mesoporous TiO ₂ layers on the optimization of photocurrent density in photoelectrochemical cells. <i>Surfaces and Interfaces</i> , 2019, 17, 100341.	3.0	6
16	Optimization of Phosphoric Acid-Based Emitter Formation on Silicon Wafer. <i>Jurnal Kejuruteraan</i> , 2018, S11, 9-14.	0.3	6
17	Optoelectronic and morphology properties of perovskite/silicon interface layer for tandem solar cell application. <i>Surface and Interface Analysis</i> , 2020, 52, 422-432.	1.8	6
18	Tin and germanium substitution in lead free perovskite solar cell: current status and future trends. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 957, 012057.	0.6	5

#	ARTICLE	IF	CITATIONS
19	Improvement of light-harvesting efficiency of amorphous silicon solar cell coated with silver nanoparticles anchored via (3-mercaptopropyl) trimethoxysilane. Applied Nanoscience (Switzerland), 2020, 10, 3553-3567.	3.1	5
20	Prospects and challenges of perovskite type transparent conductive oxides in photovoltaic applications. Part II – Synthesis and deposition. Solar Energy, 2016, 139, 309-317.	6.1	4
21	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
22	Surface Passivation Studies on n+pp+ Bifacial Solar Cell. International Journal of Photoenergy, 2012, 2012, 1-7.	2.5	3
23	Investigation of back surface fields effect on bifacial solar cells. AIP Conference Proceedings, 2012, , .	0.4	3
24	Fabrication and characterization of Al-BSF bifacial solar cell. , 2013, , .		3
25	Performance-Enhancing Sulfur-Doped TiO2 Photoanodes for Perovskite Solar Cells. Applied Sciences (Switzerland), 2022, 12, 429.	2.5	3
26	Electroluminescent from hybrid of Cdse quantum dot-organic light emitting diode. , 2008, , .		2
27	Synthesis and characterization of self-assembled, high aspect ratio nm-scale columnar silicon structures. , 2013, , .		2
28	Characterization of perovskite layer on various nanostructured silicon wafer. AIP Conference Proceedings, 2017, , .	0.4	2
29	A novel waveguide design that produces an elongated laser beam output for soft tissue ablation. Optik, 2018, 164, 561-566.	2.9	2
30	Light transmission and internal scattering in pulsed laser-etched partially-transparent silicon wafers. Heliyon, 2019, 5, e02790.	3.2	2
31	Affixing poly(methyl methacrylate-co-acrylic acid) nanospheres with trimethoxyvinylsilane on silicon solar module to enhance its power conversion efficiency. Journal of Materials Science, 2021, 56, 12364-12382.	3.7	2
32	The Effect of Annealing on the Performances of the White Organic Light Emitting Diode (OLED). , 2006, , .		1
33	Optimization of Rapid Thermal Firing on Silver Metal Contact for Crystalline Silicon Solar Cells. , 2011, , .		1
34	Enhanced light absorption in bifacial solar cells. , 2012, , .		1
35	Numerical analysis of bifacial solar cell using PC1D software. , 2013, , .		1
36	Investigation near IR absorption in thin crystalline Si wafers with randomly etched nano-pillars. AIP Conference Proceedings, 2017, , .	0.4	1

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37	The surgical ablation on soft tissues using Ho:YAG laser with deviated beam fiber. Optical Fiber Technology, 2019, 52, 101937.	2.7	1
38	Properties of Nanostructured Rutile Titanium Dioxide (TiO ₂) Thin Film Deposited with Silver Sulfide (Ag ₂ S) Quantum Dots as Photoanode for Solar Photovoltaic. Solid State Phenomena, 0, 290, 329-335.	0.3	1
39	Ambient fabrication of perovskite solar cells through delay-deposition technique. Materials for Renewable and Sustainable Energy, 2021, 10, 1.	3.6	1
40	Analysis of Spectral Transmission in Si Solar Cell with Pyramidal Texturization by Using PC3S Simulation. Silicon, 0, , 1.	3.3	1
41	Microstructural studies on fire-through front contact metallization of Si solar cells. , 2011, , .		0
42	Detailed Analysis of Shallow and Heavily-Doped Emitters for Al-BSF Bifacial Solar Cells. Advanced Materials Research, 0, 896, 459-463.	0.3	0
43	Properties of zinc tin oxide thin film by aerosol assisted chemical vapor deposition (AACVD). AIP Conference Proceedings, 2018, , .	0.4	0
44	Influence of front surface single-pulse laser drilling on a bifacial solar cell determined through simulation and experiment. Optical and Quantum Electronics, 2021, 53, 1.	3.3	0