Klaas Bakker

List of Publications by Year
in descending order

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25	1,905	759233 12	713466 21
papers	citations	h-index	g-index

26	26	26	2582
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanocrystalline dye-sensitized solar cells having maximum performance. Progress in Photovoltaics: Research and Applications, 2007, 15, 1-18.	8.1	524
2	Influence of a TiCl4 Post-Treatment on Nanocrystalline TiO2 Films in Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2006, 110, 19191-19197.	2.6	523
3	Measuring Charge Transport from Transient Photovoltage Rise Times. A New Tool To Investigate Electron Transport in Nanoparticle Films. Journal of Physical Chemistry B, 2006, 110, 17155-17160.	2.6	216
4	Reproducible manufacturing of dye-sensitized solar cells on a semi-automated baseline. Progress in Photovoltaics: Research and Applications, 2003, 11, 207-220.	8.1	165
5	Cyclometalated ruthenium complexes for sensitizing nanocrystalline TiO2 solar cells. Chemical Communications, 2007, , 1907.	4.1	148
6	Cyclometalated Organoruthenium Complexes for Application in Dye-Sensitized Solar Cells. Organometallics, 2010, 29, 1569-1579.	2.3	124
7	I-V Performance and Stability Study of Dyes for Luminescent Plate Concentrators. Journal of Solar Energy Engineering, Transactions of the ASME, 2007, 129, 277-282.	1.8	51
8	Efficiency Enhancement of Solar Cells by Application of a Polymer Coating Containing a Luminescent Dye. Journal of Solar Energy Engineering, Transactions of the ASME, 2007, 129, 272-276.	1.8	37
9	Stability of organic solar cells with PCDTBT donor polymer: An interlaboratory study. Journal of Materials Research, 2018, 33, 1909-1924.	2.6	17
10	Characterization of the Pore Filling of Solid State Dye Sensitized Solar Cells with Photoinduced Absorption Spectroscopy. International Journal of Photoenergy, 2011, 2011, 1-11.	2.5	15
11	Reliability implications of partial shading on CIGS photovoltaic devices: A literature review. Journal of Materials Research, 2019, 34, 3977-3987.	2.6	15
12	Combination of Advanced Optical Modelling with Electrical Simulation for Performance Evaluation of Practical 4-terminal Perovskite/c-Si Tandem Modules. Energy Procedia, 2016, 92, 669-677.	1.8	14
13	Plasmonic light-trapping in a-Si:H solar cells by front-side Ag nanoparticle arrays: A benchmarking study. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1571-1574.	1.8	12
14	Propagation mechanism of reverse bias induced defects in Cu(In,Ga)Se2 solar cells. Solar Energy Materials and Solar Cells, 2020, 205, 110249.	6.2	12
15	Expanding Thermal Plasma Chemical Vapour Deposition of ZnO:Al Layers for CIGS Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-9.	2.5	7
16	Material Property Changes in Defects Caused by Reverse Bias Exposure of CIGS Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 1868-1872.	2.5	7
17	Energy Band Diagram near the Interface of Aluminum Oxide on p-Si Fabricated by Atomic Layer Deposition without/with Rapid Thermal Cycle Annealing Determined by Capacitanceâ€"Voltage Measurements. E-Journal of Surface Science and Nanotechnology, 2012, 10, 22-28.	0.4	5
18	Effect of Reverse Bias Voltages on small scale gridded CIGS Solar Cells. , 2017, , .		3

#	Article	IF	Citations
19	Extraction and microscopic analysis of partial shadingâ€induced defects in a commercial CIGS PV module. Progress in Photovoltaics: Research and Applications, 0, , .	8.1	3
20	Study of the physical and chemical origin of features observed in luminescence and thermography images of Cu(In,Ga)Se2. Solar Energy Materials and Solar Cells, 2021, 230, 111145.	6.2	2
21	How the absorber thickness influences the formation of reverse bias induced defects in CIGS solar cells. EPJ Photovoltaics, 2020, 11, 9.	1.6	2
22	The exposure of CIGS solar cells to different electrical biases in a damp-heat illumination environment. , 2016, , .		1
23	How heat influences CIGSSe solar cells properties. Proceedings of SPIE, 2016, , .	0.8	1
24	Corrigendum to â€œExpanding Thermal Plasma Chemical Vapour Deposition of ZnO:Al Layers for CIGS Solar Cellsâ€• International Journal of Photoenergy, 2015, 2015, 1-1.	2.5	0
25	Corrigendum #2 to â€œExpanding Thermal Plasma Chemical Vapour Deposition of ZnO:Al Layers for CIGS Solar Cellsâ€• International Journal of Photoenergy, 2020, 2020, 1-1.	2.5	0