

# Klaas Bakker

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,905  
citations

759233

12  
h-index

713466

21  
g-index

26  
all docs

26  
docs citations

26  
times ranked

2582  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of the physical and chemical origin of features observed in luminescence and thermography images of Cu(In,Ga)Se <sub>2</sub> . Solar Energy Materials and Solar Cells, 2021, 230, 111145.	6.2	2
2	Propagation mechanism of reverse bias induced defects in Cu(In,Ga)Se <sub>2</sub> solar cells. Solar Energy Materials and Solar Cells, 2020, 205, 110249.	6.2	12
3	Corrigendum #2 to "Expanding Thermal Plasma Chemical Vapour Deposition of ZnO:Al Layers for CIGS Solar Cells". International Journal of Photoenergy, 2020, 2020, 1-1.	2.5	0
4	How the absorber thickness influences the formation of reverse bias induced defects in CIGS solar cells. EPJ Photovoltaics, 2020, 11, 9.	1.6	2
5	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
6	Reliability implications of partial shading on CIGS photovoltaic devices: A literature review. Journal of Materials Research, 2019, 34, 3977-3987.	2.6	15
7	Stability of organic solar cells with PCDTBT donor polymer: An interlaboratory study. Journal of Materials Research, 2018, 33, 1909-1924.	2.6	17
8	Effect of Reverse Bias Voltages on small scale gridded CIGS Solar Cells. , 2017, , .		3
9	The exposure of CIGS solar cells to different electrical biases in a damp-heat illumination environment. , 2016, , .		1
10	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
11	How heat influences CIGS solar cells properties. Proceedings of SPIE, 2016, , .	0.8	1
12	Corrigendum to "Expanding Thermal Plasma Chemical Vapour Deposition of ZnO:Al Layers for CIGS Solar Cells". International Journal of Photoenergy, 2015, 2015, 1-1.	2.5	0
13	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
14	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
15	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 Capacitance-Voltage Measurements. E-Journal of Surface Science and Nanotechnology, 2012, 10, 22-28.	0.4	5
16	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
17	Cyclometalated Organoruthenium Complexes for Application in Dye-Sensitized Solar Cells. Organometallics, 2010, 29, 1569-1579.	2.3	124
18	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

#	ARTICLE	IF	CITATIONS
19	Cyclometalated ruthenium complexes for sensitizing nanocrystalline TiO <sub>2</sub> solar cells. Chemical Communications, 2007, , 1907.	4.1	148
20	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
21	Nanocrystalline dye-sensitized solar cells having maximum performance. Progress in Photovoltaics: Research and Applications, 2007, 15, 1-18.	8.1	524
22	Influence of a TiCl <sub>4</sub> Post-Treatment on Nanocrystalline TiO <sub>2</sub> Films in Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2006, 110, 19191-19197.	2.6	523
23	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
24	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
25	Extraction and microscopic analysis of partial shading-induced defects in a commercial CIGS PV module. Progress in Photovoltaics: Research and Applications, 0, , .	8.1	3