Sven RÃ¼hle

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11882134/publications.pdf

Version: 2024-02-01

29	5,686	236612	454577
papers	citations	25 h-index	30 g-index

30	30	30	7777
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The detailed balance limit of perovskite/silicon and perovskite/CdTe tandem solar cells. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600955.	0.8	44
2	A combined computational and experimental investigation of Mg doped Î±-Fe₂O₃. Physical Chemistry Chemical Physics, 2016, 18, 781-791.	1.3	15
3	Tabulated values of the Shockleyâ€“Queisser limit for single junction solar cells. Solar Energy, 2016, 130, 139-147.	2.9	1,103
4	TiO2/Cu2O all-oxide heterojunction solar cells produced by spray pyrolysis. Solar Energy Materials and Solar Cells, 2015, 132, 549-556.	3.0	155
5	Thin Film Co₃O₄/TiO₂ Heterojunction Solar Cells. Advanced Energy Materials, 2015, 5, 1401007.	10.2	86
6	Four-point probe electrical resistivity scanning system for large area conductivity and activation energy mapping. Review of Scientific Instruments, 2014, 85, 055103.	0.6	15
7	Quantum Efficiency and Bandgap Analysis for Combinatorial Photovoltaics: Sorting Activity of Cuâ€“O Compounds in All-Oxide Device Libraries. ACS Combinatorial Science, 2014, 16, 53-65.	3.8	83
8	Energy Band Alignment between Anatase and Rutile TiO₂. Journal of Physical Chemistry Letters, 2013, 4, 4182-4187.	2.1	210
9	All-Oxide Photovoltaics. Journal of Physical Chemistry Letters, 2012, 3, 3755-3764.	2.1	263
10	Importance of Recombination at the TCO/Electrolyte Interface for High Efficiency Quantum Dot Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 17473-17478.	1.5	42
11	Unpredicted electron injection in CdS/CdSe quantum dot sensitized ZrO2 solar cells. Physical Chemistry Chemical Physics, 2011, 13, 19302.	1.3	36
12	PbS as a Highly Catalytic Counter Electrode for Polysulfide-Based Quantum Dot Solar Cells. Journal of Physical Chemistry C, 2011, 115, 6162-6166.	1.5	279
13	Strong Efficiency Enhancement of Dye-Sensitized Solar Cells Using a La-Modified TiCl₄ Treatment of Mesoporous TiO₂ Electrodes. Journal of Physical Chemistry C, 2011, 115, 21481-21486.	1.5	32
14	Quantumâ€Dotâ€Sensitized Solar Cells. ChemPhysChem, 2010, 11, 2290-2304.	1.0	825
15	Conformal Nanoâ€Sized Inorganic Coatings on Mesoporous TiO₂ Films for Lowâ€Temperature Dyeâ€Sensitized Solar Cell Fabrication. Advanced Functional Materials, 2010, 20, 282-288.	7.8	116
16	Dye-sensitized solar tubes: A new solar cell design for efficient current collection and improved cell sealing. Solar Energy Materials and Solar Cells, 2010, 94, 317-322.	3.0	60
17	SrTiO₃ Recombination-Inhibiting Barrier Layer for Type II Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 10015-10018.	1.5	67
18	A two junction, four terminal photovoltaic device for enhanced light to electric power conversion using a low-cost dichroic mirror. Journal of Renewable and Sustainable Energy, 2009, 1, 013106.	0.8	33

#	Article	IF	Citations
19	Electrochemistry in Mesoporous Electrodes: Influence of Nanoporosity on the Chemical Potential of the Electrolyte in Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 2022-2027.	1.5	14
20	Energy Level Alignment in CdS Quantum Dot Sensitized Solar Cells Using Molecular Dipoles. Journal of the American Chemical Society, 2009, 131, 9876-9877.	6.6	177
21	Core/CdS Quantum Dot/Shell Mesoporous Solar Cells with Improved Stability and Efficiency Using an Amorphous TiO₂ Coating. Journal of Physical Chemistry C, 2009, 113, 3895-3898.	1.5	239
22	Optical Waveguide Enhanced Photovoltaics. Optics Express, 2008, 16, 21801.	1.7	27
23	Recombination Controlled Signal Transfer through Mesoporous TiO2Films. Journal of Physical Chemistry B, 2006, 110, 3883-3888.	1.2	7
24	Chemical bath deposited CdS/CdSe-sensitized porous TiO2 solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 306-313.	2.0	368
25	Investigation of the Electric Field in TiO2/FTO Junctions Used in Dye-Sensitized Solar Cells by Photocurrent Transients. Journal of Physical Chemistry B, 2005, 109, 9522-9526.	1.2	43
26	Molecular Adjustment of the Electronic Properties of Nanoporous Electrodes in Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2005, 109, 18907-18913.	1.2	327
27	Electron Tunneling at the TiO2/Substrate Interface Can Determine Dye-Sensitized Solar Cell Performance. Journal of Physical Chemistry B, 2004, 108, 17946-17951.	1.2	103
28	Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2004, 108, 8106-8118.	1.2	584
29	Surface Photovoltage Spectroscopy of Dye-Sensitized Solar Cells with TiO2, Nb2O5, and SrTiO3Nanocrystalline Photoanodes:Â Indication for Electron Injection from Higher Excited Dye States. Journal of Physical Chemistry B, 2001, 105, 6347-6352.	1.2	332