Chia-Yuan Chen

List of Publications by Year
in descending order

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22	2,421	471509 17	642732 23
papers	citations	h-index	g-index

23	23	23	2715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Efficient Light-Harvesting Ruthenium Sensitizer for Thin-Film Dye-Sensitized Solar Cells. ACS Nano, 2009, 3, 3103-3109.	14.6	1,210
2	A Ruthenium Complex with Superhigh Light-Harvesting Capacity for Dye-Sensitized Solar Cells. Angewandte Chemie - International Edition, 2006, 45, 5822-5825.	13.8	315
3	Multifunctionalized Rutheniumâ€Based Supersensitizers for Highly Efficient Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2008, 47, 7342-7345.	13.8	176
4	A composite catalytic film of PEDOT:PSS/TiNâ€“NPs on a flexible counter-electrode substrate for a dye-sensitized solar cell. Journal of Materials Chemistry, 2011, 21, 19021.	6.7	73
5	Efficient and stable plastic dye-sensitized solar cells based on a high light-harvesting ruthenium sensitizer. Journal of Materials Chemistry, 2009, 19, 5009.	6.7	72
6	New Ruthenium Sensitizer with Carbazole Antennas for Efficient and Stable Thin-Film Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 20752-20757.	3.1	60
7	Performance Characterization of Dye-Sensitized Photovoltaics under Indoor Lighting. Journal of Physical Chemistry Letters, 2017, 8, 1824-1830.	4.6	51
8	Heteroleptic ruthenium antenna-dye for high-voltage dye-sensitized solar cells. Journal of Materials Chemistry, 2010, 20, 7158.	6.7	50
9	An efficient flexible dye-sensitized solar cell with a photoanode consisting of TiO2 nanoparticle-filled and SrO-coated TiO2 nanotube arrays. Journal of Materials Chemistry, 2010, 20, 7201.	6.7	48
10	Ruthenium Sensitizer with Thienothiophene-Linked Carbazole Antennas in Conjunction with Liquid Electrolytes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 20043-20050.	3.1	44
11	Lowâ€temperature flexible Ti/TiO₂ photoanode for dyeâ€sensitized solar cells with binderâ€free TiO₂ paste. Progress in Photovoltaics: Research and Applications, 2012, 20, 181-190.	8.1	35
12	Surface passivation: The effects of CDCA co-adsorbent and dye bath solvent on the durability of dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2013, 108, 70-77.	6.2	33
13	Improved exchange reaction in an ionic liquid electrolyte of a quasi-solid-state dye-sensitized solar cell by using 15-crown-5-functionalized MWCNT. Journal of Materials Chemistry, 2011, 21, 18467.	6.7	32
14	A New Heteroleptic Ruthenium Sensitizer for Transparent Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2012, 2, 1503-1509.	19.5	22
15	Diastereoisomers of Ruthenium Dyes with Unsymmetric Ligands for DSC: Fundamental Chemistry and Photovoltaic Performance. Inorganic Chemistry, 2015, 54, 10483-10489.	4.0	20
16	Surface modification of TiO₂ nanotube arrays with Y₂O₃ barrier layer: controlling charge recombination dynamics in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 8281-8287.	10.3	18
17	Osmium sensitizer with enhanced spinâ€“orbit coupling for panchromatic dye-sensitized solar cells. Journal of Materials Chemistry A, 2020, 8, 12361-12369.	10.3	17
18	Thermal and angular dependence of nextâ€generation photovoltaics under indoor lighting. Progress in Photovoltaics: Research and Applications, 2020, 28, 111-121.	8.1	13

#	Article	IF	Citations
19	International round-robin inter-comparison of dye-sensitized and crystalline silicon solar cells. Journal of Power Sources, 2017, 340, 309-318.	7.8	9
20	Efficient gelâ€type electrolyte with bismaleimide via in situ low temperature polymerization in dyeâ€sensitized solar cells. Journal of Polymer Science Part A, 2010, 48, 4950-4957.	2.3	8
21	Carbazole Containing Ruâ€based Photoâ€sensitizer for Dyeâ€sensitized Solar Cell. Journal of the Chinese Chemical Society, 2010, 57, 1127-1130.	1.4	8
22	Terpyridyl Ruthenium Complexes Functionalized with Conjugated Heterocycles for Panchromatic Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2021, 4, 13461-13470.	5.1	3