

Recent Advances in Sensitized Mesoscopic Solar Cells

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Photochemical energy conversion. , 0, , 112-190.		0
4	Enhancement of Photovoltaic Device Performance in Close-Packed Nanowire Excitonic Solar Cells by Förster Resonance Energy Transfer (FRET). Materials Research Society Symposia Proceedings, 2009, 1208, 1.	0.1	0
5	Remarkable Improvement in Sensitizing Property of Tetraphenylporphyrincarboxylic Acids as Sensitizers for Dye-sensitized Solar Cells by the Introduction of Trimethylsilyl Groups as Substituents. Chemistry Letters, 2010, 39, 1063-1065.	0.7	7
6	Correlating Dye Adsorption Behavior with the Open-Circuit Voltage of Triphenylamine-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 10992-10998.	1.5	95
7	Beyond Photovoltaics: Semiconductor Nanoarchitectures for Liquid-Junction Solar Cells. Chemical Reviews, 2010, 110, 6664-6688.	23.0	716
8	High-Efficiency Dye-Sensitized Solar Cells: The Influence of Lithium Ions on Exciton Dissociation, Charge Recombination, and Surface States. ACS Nano, 2010, 4, 6032-6038.	7.3	531
9	Sb ₂ S ₃ -Based Mesoscopic Solar Cell using an Organic Hole Conductor. Journal of Physical Chemistry Letters, 2010, 1, 1524-1527.	2.1	285
10	Recent developments in nanostructured materials for high-performance thermoelectrics. Journal of Materials Chemistry, 2010, 20, 9577.	6.7	163
11	D-π-A Sensitizers for Dye-Sensitized Solar Cells: Linear vs Branched Oligothiophenes. Chemistry of Materials, 2010, 22, 1836-1845.	3.2	144
12	Strongly Absorbing ππ* States in Heteroleptic Dipyrrin/2,2'-bipyridine Ruthenium Complexes: Excited-State Dynamics from Resonance Raman Spectroscopy. Chemistry - an Asian Journal, 2010, 5, 2036-2046.	1.7	26
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19	DFT simulation of Mg/Al hydrotalcite with different intercalated anions: Periodic structure and solvating effects on the iodide/triiodide redox couple. Chemical Physics Letters, 2010, 494, 274-278.	1.2	14
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22	Regeneration of Oxidized Organic Photo-sensitizers in Grätzel Solar Cells: Quantum-Chemical Portrait of a General Mechanism. <i>ChemPhysChem</i> , 2010, 11, 1858-1862.	1.0	38
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1025	Synthesis and Characterization of Donor–Acceptor-Based Porphyrin Sensitizers: Potential Application of Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2014, 20, 14074-14083.	1.7	21
1026	Acetonitrile Solution Effect on Ru N749 Dye Adsorption and Excitation at TiO ₂ Anatase Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16863-16871.	1.5	14
1027	Recent Developments in Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2014, 15, 3902-3927.	1.0	79
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1035	General Suzuki Coupling of Heteroaryl Bromides by Using Tri- <i>tert</i> -butylphosphine as a Supporting Ligand. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 5901-5905.	1.2	41
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1037	The Redox Pair Chemical Environment Influence on the Recombination Loss in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3878-3889.	1.5	29
1038	Designing triphenylamine derivative dyes for highly effective dye-sensitized solar cells with near-infrared light harvesting up to 1100 nm. <i>RSC Advances</i> , 2014, 4, 48750-48757.	1.7	21
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1040	Synthesis of Cuboid-Shaped Single-Crystalline TiO ₂ Nanocrystals with High-Energy Facets {001} and Its Dye-Sensitized Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16703-16709.	1.5	29
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1058	Erroneous efficiency reports harm organic solar cell research. Nature Photonics, 2014, 8, 669-672.	15.6	195
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1099	Channeling of electron transport to improve collection efficiency in mesoporous titanium dioxide dye sensitized solar cell stacks. <i>Applied Physics Letters</i> , 2014, 104, 053905.	1.5	13
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1994	Intriguing Effects of Halogen Substitution on the Photophysical Properties of 2,9-(Bis)halo-Substituted Phenanthrolinecopper(I) Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 7730-7745.	1.9	23
1995	Binary redox electrolytes used in dye-sensitized solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 53-65.	2.9	25
1996	Panchromatic sensitization of new terpyridine ligated thiocyanate-free Ru-complex. <i>Solar Energy</i> , 2019, 188, 305-311.	2.9	2
1997	Renaissance of Fused Porphyrins: Substituted Methylene-Bridged Thiophene-Fused Strategy for High-Performance Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 9910-9919.	6.6	176
1998	Catechol versus carboxyl linkage impact on DSSC performance of synthetic pyranoflavylum salts. <i>Dyes and Pigments</i> , 2019, 170, 107577.	2.0	26
1999	Theoretical insight on the nanocomposite of tetraphenylporphyrin- graphene oxide quantum dot as a sensitizer of DSSC. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 379, 24-31.	2.0	15
2000	Hydrogen sulfide splitting using solar energy and hematite photo-anodes. <i>Electrochimica Acta</i> , 2019, 317, 384-397.	2.6	4
2001	Ion Beam Induced Artifacts in Lead-Based Chalcogenides. <i>Microscopy and Microanalysis</i> , 2019, 25, 831-839.	0.2	6
2002	Improving the efficiency of copper-dye-sensitized solar cells by manipulating the electrolyte solution. <i>Dalton Transactions</i> , 2019, 48, 9818-9823.	1.6	21
2003	The synthesis and characterization of carbon dots and their application in dye sensitized solar cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14580-14587.	3.8	42
2004	Optimizing concurrent extension of near-infrared and ultraviolet light harvesting of dye sensitized solar cells by introducing sandwich-nanostructured upconversion-core/inert-shell/downconversion-shell nanoparticles. <i>Journal of Power Sources</i> , 2019, 430, 43-50.	4.0	12
2005	Theoretical and experimental investigation of visible light responsive AgBiS ₂ -TiO ₂ heterojunctions for enhanced photocatalytic applications. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 401-418.	10.8	94
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2009	Theoretical analysis of the electronic properties in Zinc-porphyrins derivatives. <i>Journal of Molecular Structure</i> , 2019, 1191, 259-270.	1.8	9
2010	Ultrafast photoinduced energy and charge transfer. <i>Faraday Discussions</i> , 2019, 216, 9-37.	1.6	5

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2013	Effect of cobalt doping on the device properties of Sb ₂ S ₃ -sensitized TiO ₂ solar cells. <i>Solar Energy</i> , 2019, 183, 697-703.	2.9	21
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2015	One-pot Synthesis of CZTS/RGO Composite Material and its Electro-catalytic Performance towards Triiodide Reduction in Dye-sensitized Solar Cells. <i>ChemistrySelect</i> , 2019, 4, 2436-2443.	0.7	4
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2020	Temperature-dependent photoluminescence and lasing properties of CsPbBr ₃ nanowires. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	59
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2024	Shape Control Iron Pyrite Synthesized by Hot Injection Method: Counter Electrode for Efficient Dye-Sensitized Solar Cells. <i>Electronic Materials Letters</i> , 2019, 15, 350-356.	1.0	5
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