

Conversion of light to electricity by cis-X<sub>2</sub>bis(2,2'-bipyridine) charge-transfer sensitizers (X = Cl<sup>-</sup>, Br<sup>-</sup>, I<sup>-</sup>, CN<sup>-</sup>, and SCN<sup>-</sup>) on titanium dioxide electrodes

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Citation Report

#	ARTICLE	IF	CITATIONS
2	The Hobbling of Coal: Policy and Regulatory Uncertainties. <i>Science</i> , 1978, 200, 153-158.	6.0	17
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6	Towards large-area photovoltaic nanocells: experiences learned from smart window technology. <i>Solar Energy Materials and Solar Cells</i> , 1994, 32, 307-321.	3.0	50
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1069	Modification of TiO <sub>2</sub> semiconductor with molecules bearing functional phosphonic groups: a <sup>31</sup> P solid state NMR study. <i>Journal of Materials Processing Technology</i> , 2005, 161, 276-281.	3.1	9
1070	Dye-sensitized photoelectrochemical solar cells based on nanocomposite organic-inorganic materials. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 169, 57-61.	2.0	58
1071	Influence of nitrogen-containing heterocyclic additives in I <sup>2</sup> /I <sup>-</sup> redox electrolytic solution on the performance of Ru-dye-sensitized nanocrystalline TiO <sub>2</sub> solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 169, 169-176.	2.0	69
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1073	Photoinduced electron transfer reactions of ruthenium(II) complexes containing 2,2'-bipyridine-4,4'-dicarboxylic acid with phenols. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 171, 83-90.	2.0	23
1074	Density functional study of imidazole-iodine interaction and its implication in dye-sensitized solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 171, 197-204.	2.0	19
1075	Novel cyanine dyes with different methine chains as sensitizers for nanocrystalline solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 171, 231-236.	2.0	57
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1078	Electrophoretically deposited TiO <sub>2</sub> photo-electrodes for use in flexible dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 173, 1-6.	2.0	106
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1080	Effect of rutile-type content on nanostructured anatase-type TiO <sub>2</sub> electrode sensitized with CdSe quantum dots characterized with photoacoustic and photoelectrochemical current spectroscopies. <i>Materials Science and Engineering C</i> , 2005, 25, 853-857.	3.8	10
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1082	Cationic surfactant promoted reductive electrodeposition of nanocrystalline anatase TiO <sub>2</sub> for application to dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2005, 50, 2713-2718.	2.6	26
1083	A novel high-performance counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2005, 50, 5546-5552.	2.6	65
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1087	Structural, optical and Raman scattering studies on DC magnetron sputtered titanium dioxide thin films. <i>Solar Energy Materials and Solar Cells</i> , 2005, 88, 199-208.	3.0	80
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1091	Nanocrystalline TiO <sub>2</sub> photosensitized with natural polymers with enhanced efficiency from 400 to 600nm. <i>Solar Energy Materials and Solar Cells</i> , 2005, 85, 359-369.	3.0	38
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3423	Highly Efficient Iodide/Triiodide Dye-Sensitized Solar Cells with Gel-Coated Reduce Graphene Oxide/Single-Walled Carbon Nanotube Composites as the Counter Electrode Exhibiting an Open-Circuit Voltage of 0.90 V. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6657-6664.	4.0	50
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3425	Exploring the role of varied-length spacers in charge transfer: a theoretical investigation on pyrimidine-bridged porphyrin dyes. <i>RSC Advances</i> , 2013, 3, 17515.	1.7	25
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3428	Efficient and stable DSSC sensitizers based on substituted dihydroindolo[2,3-b]carbazole donors with high molar extinction coefficients. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11295.	5.2	87
3429	Fabrication, characterization of two nano-composite CuO-ZnO working electrodes for dye-sensitized solar cell. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 116, 374-380.	2.0	63
3430	Sol-gel based TiO <sub>2</sub> paste applied in screen-printed dye-sensitized solar cells and modules. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1464-1469.	2.9	36
3431	Review on nanostructured photoelectrodes for next generation dye-sensitized solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 334-349.	8.2	118
3432	Inactivation/reactivation of antibiotic-resistant bacteria by a novel UVA/LED/TiO <sub>2</sub> system. <i>Water Research</i> , 2013, 47, 4547-4555.	5.3	94
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3435	A DFT study of the regeneration process of zinc porphyrin analogues in dye-sensitized solar cells. <i>Dalton Transactions</i> , 2013, 42, 13874.	1.6	2
3436	Broadband light absorption enhancement in dye-sensitized solar cells with Au-Ag alloy popcorn nanoparticles. <i>Scientific Reports</i> , 2013, 3, 2112.	1.6	87
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3442	Hollow activated carbon nanofibers prepared by electrospinning as counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 102, 423-428.	2.6	62
3443	Dye-sensitized solar cells based on anatase TiO <sub>2</sub> /multi-walled carbon nanotubes composite nanofibers photoanode. <i>Electrochimica Acta</i> , 2013, 87, 651-656.	2.6	60
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3446	Tetraaryl Zn <sup>II</sup> Porphyrinates Substituted at $\beta$ -Pyrrolic Positions as Sensitizers in Dye-Sensitized Solar Cells: A Comparison with <i>meso</i> -Disubstituted Push-Pull Zn <sup>II</sup> Porphyrinates. <i>Chemistry - A European Journal</i> , 2013, 19, 10723-10740.	1.7	60
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3449	Mini review on photocatalysis of titanium dioxide nanoparticles and their solar applications. <i>Nano Energy</i> , 2013, 2, 1031-1045.	8.2	348
3450	Efficiency enhancement in dye sensitized solar cells based on PAN gel electrolyte with Pr <sub>4</sub> Ni <sup>II</sup> +MgI <sub>2</sub> binary iodide salt mixture. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 891-901.	1.5	31
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3469	Determination of Sensitizer Regeneration Efficiency in Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2013, 7, 8233-8242.	7.3	58
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3472	Dye-sensitized solar cells based on electrospun poly(vinylidene fluoride-co-hexafluoropropylene) nanofibers. <i>Polymer Bulletin</i> , 2013, 70, 507-515.	1.7	9
3473	Effects of controlled surface treatment on titanium dioxide electrode nanostructure for dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 371-380.	1.1	7
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3484	Metal free sensitizer and catalyst for dye sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3439.	15.6	365
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3490	Aqueous Colloidal Stability Evaluated by Zeta Potential Measurement and Resultant $\langle \text{scp} \rangle \langle \text{scp} \rangle \text{TiO} \langle \text{scp} \rangle \langle \text{scp} \rangle \langle \text{sub} \rangle 2 \langle \text{sub} \rangle$ for Superior Photovoltaic Performance. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2636-2643.	1.9	26
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3495	Synthesis and characterization of dianchoring organic dyes containing 2,7-diaminofluorene donors as efficient sensitizers for dye-sensitized solar cells. <i>Organic Electronics</i> , 2013, 14, 3267-3276.	1.4	22
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3502	Effect of annealing temperature on nanocrystalline TiO <sub>2</sub> thin films prepared by sol $\hat{\text{A}}$ gel dip coating method. <i>Optik</i> , 2013, 124, 6201-6204.	1.4	32
3503	Enhancement of photovoltaic performance in dye-sensitized solar cells fabricated with dendritic photosensitizer containing site-isolated chromophores. <i>Dyes and Pigments</i> , 2013, 99, 986-994.	2.0	18
3504	A novel photoelectrochemical solar cell with high efficiency in converting ultraviolet light to electricity. <i>Electrochimica Acta</i> , 2013, 108, 337-342.	2.6	9
3505	Synthesis of Phosphonic Acid Derivatized Bipyridine Ligands and Their Ruthenium Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 12492-12501.	1.9	114
3506	Visible-Light-Induced Water Splitting Based on Two-Step Photoexcitation between Dye-Sensitized Layered Niobate and Tungsten Oxide Photocatalysts in the Presence of a Triiodide/Iodide Shuttle Redox Mediator. <i>Journal of the American Chemical Society</i> , 2013, 135, 16872-16884.	6.6	233
3507	Zinc-Porphyrin Based Dyes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10973-10979.	1.1	83
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3510	Salicylic Acid As a Tridentate Anchoring Group for <i>azo</i> -Bridged Zinc Porphyrin in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12631-12637.	4.0	52
3511	Novel Carbazole-Phenothiazine Dyads for Dye-Sensitized Solar Cells: A Combined Experimental and Theoretical Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9635-9647.	4.0	102
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3513	Photovoltaic Performance of Vertically Grown ZnO Nanorods in Dye-sensitized Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 581, 116-125.	0.4	1
3514	Chemically modified titanium oxide nanostructures for dye-sensitized solar cells. <i>Nano Energy</i> , 2013, 2, 1373-1382.	8.2	21
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3516	X-ray Characterization of Dye Adsorption in Coadsorbed Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17033-17038.	1.5	15
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3523	LiTFSI as a plastic salt in the quasi-solid state polymer electrolyte for dye-sensitized solar cells. <i>Comptes Rendus Chimie</i> , 2013, 16, 195-200.	0.2	3
3524	Design and Characterization of Heteroleptic Ruthenium Complexes Containing Benzimidazole Ligands for Dye-Sensitized Solar Cells: The Effect of Thiophene and Alkyl Substituents on Photovoltaic Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2059-2065.	1.5	37
3525	Third row metal complexes as an alternative dye in dye sensitized solar cell system. <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
3526	Facile Synthesis of Poly(3,4-ethylenedioxythiophene) Film via Solid-State Polymerization as High-Performance Pt-Free Counter Electrodes for Plastic Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8423-8429.	4.0	68

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3529	Plasmonic nanoparticles enhanced dye-sensitized solar cells. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
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3533	Bi-functional ion exchangers for enhanced performance of dye-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 6671.	2.2	3
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3549	Optimizing the Energy Offset between Dye and Hole-Transporting Material in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19850-19858.	1.5	19
3550	Controlled synthesis of mesoporous anatase TiO <sub>2</sub> microspheres as a scattering layer to enhance the photoelectrical conversion efficiency. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9853.	5.2	70
3551	Recent molecular engineering of room temperature ionic liquid electrolytes for mesoscopic dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 23521.	1.7	18
3552	Amidoamine dendron-based co-adsorbents: improved performance in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14524.	5.2	13
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3631	Highly crystalline graphene/carbon black composite counter electrodes with controllable content: Synthesis, characterization and application in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 96, 155-163.	2.6	59
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3652	Cooperative effect of adsorbed cations on electron transport and recombination behavior in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 100, 197-202.	2.6	20
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4003	Improvement of photovoltaic performance of DSSCs by modifying panchromatic zinc porphyrin dyes with heterocyclic units. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20841-20848.	5.2	12

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4005	Range-Separated Hybrid Density Functional Study of Organic Dye Sensitizers on Anatase TiO <sub>2</sub> Nanowires. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24776-24783.	1.5	2
4006	Shielding effects of additives in a cobalt(ii/iii) redox electrolyte: toward higher open-circuit photovoltages in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10532.	5.2	21
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4020	Efficient quasi-solid-state dye-sensitized solar cells based on organic sensitizers containing fluorinated quinoxaline moiety. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19515-19525.	5.2	20
4021	Post-treatment on dye-sensitized solar cells with TiCl <sub>4</sub> and Nb <sub>2</sub> O <sub>5</sub> . <i>RSC Advances</i> , 2014, 4, 6746.	1.7	13

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4056	Iridium dimer complex for dye sensitized solar cells using electrolyte combinations with different ionic liquids. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 532-540.	1.9	11
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4063	Emerging molecular design strategies of unsymmetrical phthalocyanines for dye-sensitized solar cell applications. <i>RSC Advances</i> , 2014, 4, 6970.	1.7	94
4064	A review on materials for light scattering in dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 17615-17638.	1.7	127
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4069	Enhanced Near-Infrared to Visible Upconversion Nanoparticles of Ho <sup>3+</sup> -Yb <sup>3+</sup> -F <sup>3+</sup> Tri-Doped TiO <sub>2</sub> and Its Application in Dye-Sensitized Solar Cells with 37% Improvement in Power Conversion Efficiency. <i>Inorganic Chemistry</i> , 2014, 53, 8045-8053.	1.9	71
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4073	SYNTHESIS, CHARACTERISTICS AND APPLICATIONS OF ZnO NANOWIRES IN DYE-SENSITIZED SOLAR CELLS VIA WATER BATH METHOD. <i>Nano</i> , 2014, 09, 1450061.	0.5	1
4074	Synthesis and ultraviolet-visible spectroscopic and electrochemical analyses of dyes derived from 2-aminobenzothiazole, and study of their adsorption on titanium dioxide. <i>Coloration Technology</i> , 2014, 130, 243-249.	0.7	7
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4077	Functional tuning of phenothiazine-based dyes by a benzimidazole auxiliary chromophore: an account of optical and photovoltaic studies. <i>RSC Advances</i> , 2014, 4, 53588-53601.	1.7	35
4078	Fabrication, morphology formation mechanism and properties of nanometer Cu <sub>2</sub> O thin film with KCl-doping. <i>Materials Chemistry and Physics</i> , 2014, 148, 727-733.	2.0	9
4079	Grape pigment (malvidin-3-fructoside) as natural sensitizer for dye-sensitized solar cells. <i>Materials for Renewable and Sustainable Energy</i> , 2014, 3, 1.	1.5	10
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4082	Integrating a redox-coupled dye-sensitized photoelectrode into a lithiumâ€“oxygen battery for photoassisted charging. <i>Nature Communications</i> , 2014, 5, 5111.	5.8	236
4083	Understanding TiO <sub>2</sub> Photocatalysis: Mechanisms and Materials. <i>Chemical Reviews</i> , 2014, 114, 9919-9986.	23.0	4,658
4084	Optimization of iodide ion conductivity and nano filler effect for efficiency enhancement in polyethylene oxide (PEO) based dye sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 145, 319-326.	2.6	24
4085	Synthesis, Characterization, and Biological Evaluation of New Ru(II) Polypyridyl Photosensitizers for Photodynamic Therapy. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 7280-7292.	2.9	149
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4089	DFT and TD-DFT studies on osmacycle dyes with tunable photoelectronic properties for solar cells. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	9
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4092	Efficient Copper Mediators Based on Bulky Asymmetric Phenanthrolines for DSSCs. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13945-13955.	4.0	53
4093	Synthesis and photophysical properties of new ruthenium(II) charge-transfer sensitizers containing a 4,7-bis(E-carboxyvinyl)-1,10-phenanthroline ligand. <i>Monatshefte F&amp;A;r Chemie</i> , 2014, 145, 1101-1108.	0.9	10



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4096	Theoretical studies on effective metal-to-ligand charge transfer characteristics of novel ruthenium dyes for dye sensitized solar cells. <i>Journal of Computer-Aided Molecular Design</i> , 2014, 28, 565-575.	1.3	5
4097	Double-Layer TiO <sub>2</sub> Electrodes with Controlled Phase Composition and Morphology for Efficient Light Management in Dye-Sensitized Solar Cells. <i>Journal of Cluster Science</i> , 2014, 25, 1029-1045.	1.7	14
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4106	Low temperature fabrication of high performance p-n junction on the Ti foil for use in large-area flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 117, 1-8.	2.6	12
4107	Lessons Learned: From Dye-Sensitized Solar Cells to All-Solid-State Hybrid Devices. <i>Advanced Materials</i> , 2014, 26, 4013-4030.	11.1	144
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4109	Highly conjugated electron rich thiophene antennas on phenothiazine and phenoxazine-based sensitizers for dye sensitized solar cells. <i>Synthetic Metals</i> , 2014, 195, 208-216.	2.1	36
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4111	Adapting Ruthenium Sensitizers to Cobalt Electrolyte Systems. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 501-505.	2.1	15

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4113	Optimization of dye loading time for SnO <sub>2</sub> based Rose Bengal dye-sensitized solar cell. Indian Journal of Physics, 2014, 88, 1067-1071.	0.9	4
4114	Combination of Optical and Electrical Loss Analyses for a Si-Phthalocyanine Dye-Sensitized Solar Cell. Journal of Physical Chemistry B, 2014, 118, 14027-14036.	1.2	7
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4117	Dâ€“A Structured Zn<sup>II</sup>â€“Porphyrin Dyes with Thiophene Moiety for Highly Efficient Dyeâ€“Sensitized Solar Cells. ChemElectroChem, 2014, 1, 637-644.	1.7	13
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4121	Substituting TiCl<sub>4</sub>â€“Carbon Nanohorn Interfaces for Dyeâ€“Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1301577.	10.2	20
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4268	Electrochemical and photovoltaic study of sunset yellow and tartrazine dyes. <i>Monatshefte für Chemie</i> , 2015, 146, 1631-1640.	0.9	25
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4276	Exploring excited states of Pt(II) diimine catecholates for photoinduced charge separation. <i>Dalton Transactions</i> , 2015, 44, 11705-11716.	1.6	21
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4359	Ruthenium(II) complexes containing benzimidazolic tripodal ligands. <i>Inorganica Chimica Acta</i> , 2015, 431, 258-265.	1.2	8
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4689	Design of (Z)-2-cyano-2-[2-[(E)-2-[5-[(E)-2-(4-dimethylaminophenyl)vinyl]-2-thienyl]vinyl]pyran-4-ylidene]acetic acid derivatives as D-π-A dye sensitizers in molecular photovoltaics: a density functional theory approach. <i>Research on Chemical Intermediates</i> , 2016, 42, 4605-4619.	1.3	11
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4802	Preparation of hierarchical rutile TiO <sub>2</sub> microspheres as scattering centers for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2017, 255, 187-194.	2.6	24
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