

Porphyrins as excellent dyes for dye-sensitized solar cells: new insights

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Push-Pull Bacteriochlorin: Panchromatic Sensitizer for Dye-sensitized Solar Cell. <i>Chemistry Letters</i> , 2015, 44, 1395-1397.	0.7	6
2	Organic Dyes with Well-Defined Structures for Highly Efficient Dye-Sensitized Solar Cells Based on a Cobalt Electrolyte. <i>Chemistry - A European Journal</i> , 2015, 21, 14804-14811.	1.7	36
4	Molecular Engineering of Pyrido[3,4-b]pyrazine-Based Donor-Acceptor-Acceptor Organic Sensitizers: Effect of Auxiliary Acceptor in Cobalt- and Iodine-Based Electrolytes. <i>Chemistry - A European Journal</i> , 2015, 21, 18654-18661.	1.7	13
5	Efficiency Records in Mesoscopic Dye-Sensitized Solar Cells. <i>Chemical Record</i> , 2015, 15, 803-828.	2.9	41
6	Zn(II)-Protoporphyrin IX-Based Photosensitizer-Imprinted Au-Nanoparticle-Modified Electrodes for Photoelectrochemical Applications. <i>Advanced Functional Materials</i> , 2015, 25, 6470-6477.	7.8	5
7	Trifunctional TiO ₂ Nanoparticles with Exposed {001} Facets as Additives in Cobalt-Based Porphyrin-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 6093-6100.	7.8	15
8	Tropolone as a High-Performance Robust Anchoring Group for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9052-9056.	7.2	99
9	Ultrafast Photoinduced Charge Separation Leading to High-Energy Radical Ion Pairs in Directly Linked Corrole-C ₆₀ and Triphenylamine-Corrole-C ₆₀ Donor-Acceptor Conjugates. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2708-2719.	1.7	27
10	Molecular Engineering of Organic Dyes with a Hole-Extending Donor Tail for Efficient All-Solid-State Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2015, 8, 2529-2536.	3.6	18
11	Selective Synthesis of Tripyrranes, Tetrapyrroles, and Corroles. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7583-7593.	1.2	6
12	A hybrid electron donor comprising cyclopentadithiophene and dithiafulvenyl for dye-sensitized solar cells. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 1052-1059.	1.3	12
13	The Role of Porphyrin-Free-Base in the Electronic Structures and Related Properties of N-Fused Carbazole-Zinc Porphyrin Dye Sensitizers. <i>International Journal of Molecular Sciences</i> , 2015, 16, 27707-27720.	1.8	20
14	Picolinic acid as an efficient tridentate anchoring group adsorbing at Lewis acid sites and Brønsted acid sites of the TiO ₂ surface in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14809-14816.	5.2	30
15	A Metal-Free Annulated Thienocyclopentaperylene Dye: Power Conversion Efficiency of 12% for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5994-5998.	7.2	196
16	A meso-meso directly linked porphyrin dimer-based double D-A-A sensitizer for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2015, 51, 3782-3785.	2.2	34
17	<i>N</i>-Annulated Perylene-Based Push-Pull-Type Sensitizers. <i>Organic Letters</i> , 2015, 17, 724-727.	2.4	43
18	Effects of Number and Position of Meta and Para Carboxyphenyl Groups of Zinc Porphyrins in Dye-Sensitized Solar Cells: Structure-Performance Relationship. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1879-1891.	4.0	38
19	Across the Board: Hiroshi Imahori. <i>ChemSusChem</i> , 2015, 8, 426-427.	3.6	1

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21	Saddle-shaped porphyrins for dye-sensitized solar cells: new insight into the relationship between nonplanarity and photovoltaic properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6347-6358.	1.3	28
22	The effect of different alkyl chains on the photovoltaic performance of Dâ€‘A porphyrin-sensitized solar cells. <i>New Journal of Chemistry</i> , 2015, 39, 3736-3746.	1.4	21
23	Alkyl-thiophene Functionalized D-ï€A Porphyrins for Mesoscopic Solar Cells. <i>Electrochimica Acta</i> , 2015, 179, 187-196.	2.6	13
24	Ï€-Functionalized Push-Pull Porphyrin Sensitizers in Dye-Sensitized Solar Cells: Effect of ï€-Conjugated Spacers. <i>ChemSusChem</i> , 2015, 8, 2967-2977.	3.6	34
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26	Click made porphyrin-corrrole dyad: a system for photo-induced charge separation. <i>Dalton Transactions</i> , 2015, 44, 13473-13479.	1.6	21
27	Efficient co-sensitization of dye-sensitized solar cells by novel porphyrin/triazine dye and tertiary aryl-amine organic dye. <i>Organic Electronics</i> , 2015, 25, 295-307.	1.4	47
28	A triazine di(carboxy)porphyrin dyad versus a triazine di(carboxy)porphyrin triad for sensitizers in DSSCs. <i>Dalton Transactions</i> , 2015, 44, 13550-13564.	1.6	16
29	The cis-isomer performs better than the trans-isomer in porphyrin-sensitized solar cells: interfacial electron transport and charge recombination investigations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20134-20143.	1.3	15
30	Aâ€‘Dâ€‘A based porphyrin for solution processed small molecule bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16287-16301.	5.2	47
31	Insight into Dâ€‘A Structured Sensitizers: A Promising Route to Highly Efficient and Stable Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9307-9318.	4.0	278
32	Effect of electronic-insulating oxides overlayer on the performance of zinc oxide based dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 305, 37-44.	2.0	7
33	Photoinduced Charge-Carrier Generation in Epitaxial MOF Thin Films: High Efficiency as a Result of an Indirect Electronic Band Gap?. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7441-7445.	7.2	206
34	Unusual near-white electroluminescence of light emitting diodes based on saddle-shaped porphyrins. <i>Dalton Transactions</i> , 2015, 44, 8364-8368.	1.6	15
35	Donor/Acceptor Indenoperylene Dye for Highly Efficient Organic Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 3799-3802.	6.6	528
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40	A diminutive modification in arylamine electron donors: synthesis, photophysics and solvatochromic analysis towards the understanding of dye sensitized solar cell performances. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28647-28657.	1.3	20
41	Electron deficient nonplanar Γ^2 -octachlorovanadylporphyrin as a highly efficient and selective epoxidation catalyst for olefins. <i>Dalton Transactions</i> , 2015, 44, 17720-17729.	1.6	36
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43	Impact of alkoxy chain length on carbazole-based, visible light-driven, dye sensitized photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21713-21721.	5.2	33
44	Synthesis and photophysical properties of donor-acceptor system based bipyridylporphyrins for dye-sensitized solar cells. <i>Journal of Energy Chemistry</i> , 2015, 24, 779-785.	7.1	5
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54	Γ^2 -Functionalized Push-Pull <i>opp</i> -Dibenzoporphyrins. <i>Journal of Organic Chemistry</i> , 2015, 80, 12076-12087.	1.7	32
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56	Terpyridine and Quaterpyridine Complexes as Sensitizers for Photovoltaic Applications. <i>Materials</i> , 2016, 9, 137.	1.3	50
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74	Metalloporphyrins in Solar Energy Conversion. , 2016, , 171-262.		9
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85	First-Generation Subporphyrinatoboron(III) Sensitizers Surpass the 10% Power Conversion Efficiency Threshold. Angewandte Chemie - International Edition, 2016, 55, 10287-10291.	7.2	27
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101	Novel metal-free organic dyes possessing fused heterocyclic structural motifs for efficient molecular photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30105-30116.	1.3	8
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103	Computational modelling of panchromatic porphyrins with strong NIR absorptions for solar energy capture. <i>Chemical Physics Letters</i> , 2016, 665, 40-46.	1.2	4
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111	Effects of Bulky Substituents of Push-Pull Porphyrins on Photovoltaic Properties of Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15379-15390.	4.0	61

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113	A feasible scalable porphyrin dye for dye-sensitized solar cells under one sun and dim light environments. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11878-11887.	5.2	83
114	Porphyrins with intense absorptivity: highly efficient sensitizers with a photovoltaic efficiency of up to 10.7% without a cosensitizer and a coabsorbate. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11829-11834.	5.2	56
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117	Enhanced performance of dye-sensitized solar cells with Y-shaped organic dyes containing di-anchoring groups. <i>New Journal of Chemistry</i> , 2016, 40, 2799-2805.	1.4	24
118	Phenothiazine-functionalized push-pull Zn porphyrin photosensitizers for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 9057-9065.	1.7	20
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120	Charge recombination losses in thiophene-substituted porphyrin dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2016, 126, 147-153.	2.0	18
121	From Molecular Design to Co-sensitization; High performance indole based photosensitizers for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 198, 10-21.	2.6	36
122	Synthesis of asymmetric zinc phthalocyanine with bulky diphenylthiophenol substituents and its photovoltaic performance for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 321, 248-256.	2.0	14
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125	Thiophene-based fluorescent mercury-sensors. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2081-2089.	0.8	14
126	Pyridyl vs. bipyridyl anchoring groups of porphyrin sensitizers for dye sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 22187-22203.	1.7	18
127	Improved light absorbance does not lead to better DSC performance: studies on a ruthenium porphyrin-terpyridine conjugate. <i>RSC Advances</i> , 2016, 6, 15370-15381.	1.7	4
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129	Dye-sensitized solar cell based on an inclusion complex of a cyclic porphyrin dimer bearing four 4-pyridyl groups and fullerene C ₆₀ . <i>RSC Advances</i> , 2016, 6, 16150-16158.	1.7	18

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130	Synthesis and Characterization of Porphyrin-Based GUMBOS and NanoGUMBOS as Improved Photosensitizers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5155-5163.	1.5	26
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132	Benzimidazole-Branched Isomeric Dyes: Effect of Molecular Constitution on Photophysical, Electrochemical, and Photovoltaic Properties. <i>Journal of Organic Chemistry</i> , 2016, 81, 640-653.	1.7	58
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134	Visible light-driven water oxidation using a covalently-linked molecular catalystâ€“sensitizer dyad assembled on a TiO ₂ electrode. <i>Chemical Science</i> , 2016, 7, 1430-1439.	3.7	103
135	Benefits of using BODIPYâ€“porphyrin dyads for developing deep-red lighting sources. <i>Chemical Communications</i> , 2016, 52, 1602-1605.	2.2	60
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