List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Chlorophyll Derivative-Sensitized TiO ₂ Electron Transport Layer for Record Efficiency of Cs ₂ AgBiBr ₆ Double Perovskite Solar Cells. Journal of the American Chemical Society, 2021, 143, 2207-2211.	13.7	154
2	Chlorophyll- <i>a</i> Derivatives with Various Hydrocarbon Ester Groups for Efficient Dye-Sensitized Solar Cells: Static and Ultrafast Evaluations on Electron Injection and Charge Collection Processes. Langmuir, 2010, 26, 6320-6327.	3.5	118
3	Efficient Dye-Sensitized Solar Cell Based on <i>oxo</i> Bacteriochlorin Sensitizers with Broadband Absorption Capability. Journal of Physical Chemistry C, 2009, 113, 7954-7961.	3.1	95
4	Dye-sensitized solar cells using a chlorophyll a derivative as the sensitizer and carotenoids having different conjugation lengths as redox spacers. Chemical Physics Letters, 2005, 408, 409-414.	2.6	86
5	Effects of plant carotenoid spacers on the performance of a dye-sensitized solar cell using a chlorophyll derivative: Enhancement of photocurrent determined by one electron-oxidation potential of each carotenoid. Chemical Physics Letters, 2006, 423, 470-475.	2.6	86
6	Extension of ï€-conjugation length along the Qy axis of a chlorophyll a derivative for efficient dye-sensitized solar cells. Chemical Communications, 2009, , 1523.	4.1	72
7	Synthesis and Optical Properties of Bacteriochlorophyll-aDerivatives Having Various C3 Substituents on the Bacteriochlorin π-System. Journal of Organic Chemistry, 2006, 71, 2648-2654.	3.2	66
8	Dopantâ€Free Zinc Chlorophyll Aggregates as an Efficient Biocompatible Hole Transporter for Perovskite Solar Cells. ChemSusChem, 2016, 9, 2862-2869.	6.8	58
9	Photoactive Znâ€Chlorophyll Hole Transporterâ€Sensitized Leadâ€Free Cs ₂ AgBiBr ₆ Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000166.	5.8	58
10	Dyad Sensitizer of Chlorophyll with Indoline Dye for Panchromatic Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2018, 1, 2813-2820.	5.1	51
11	Chlorosomeâ€Like Molecular Aggregation of Chlorophyll Derivative on Ti ₃ C ₂ T <i>_x</i> MXene Nanosheets for Efficient Noble Metalâ€Free Photocatalytic Hydrogen Evolution. Advanced Materials Interfaces, 2020, 7, 1902080.	3.7	49
12	Bilayer Chlorophyll-Based Biosolar Cells Inspired from the Z-Scheme Process of Oxygenic Photosynthesis. ACS Energy Letters, 2018, 3, 1708-1712.	17.4	46
13	Semisynthetic Chlorophyll Derivatives Toward Solar Energy Applications. Solar Rrl, 2020, 4, 2000162.	5.8	43
14	Synthesis and Anion-Selective Complexation of Homobenzylic Tripodal Thiourea Derivatives. European Journal of Organic Chemistry, 2007, 2007, 607-615.	2.4	42
15	Development of Solar Cells Based on Synthetic Near-Infrared Absorbing Purpurins: Observation of Multiple Electron Injection Pathways at Cyclic Tetrapyrrole–Semiconductor Interface. Journal of Physical Chemistry C, 2011, 115, 24394-24402.	3.1	41
16	Dependence of Photocurrent and Conversion Efficiency of Titania-Based Solar Cell on the Q <i>_y</i> Absorption and One Electron-Oxidation Potential of Pheophorbide Sensitizer. Journal of Physical Chemistry C, 2008, 112, 4418-4426.	3.1	40
17	Molecular engineering on a chlorophyll derivative, chlorin e6, forÂsignificantly improved power conversion efficiency in dye-sensitized solar cells. Journal of Power Sources, 2013, 242, 860-864.	7.8	35
18	Zinc chlorophyll aggregates as hole transporters for biocompatible, natural-photosynthesis-inspired solar cells. Journal of Power Sources, 2015, 297, 519-524.	7.8	34

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19	Near-infrared absorption carboxylated chlorophyll-a derivatives for biocompatible dye-sensitized hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 15731-15738.	7.1	33
20	Trilayer Chlorophyll-Based Cascade Biosolar Cells. ACS Energy Letters, 2019, 4, 384-389.	17.4	32
21	Natural-photosynthesis-inspired photovoltaic cells using carotenoid aggregates as electron donors and chlorophyll derivatives as electron acceptors. RSC Advances, 2015, 5, 45755-45759.	3.6	31
22	Cooperative C3―and C13‣ubstituent Effects on Synthetic Chlorophyll Derivatives. European Journal of Organic Chemistry, 2010, 2010, 5287-5291.	2.4	30
23	A Facile Synthetic Method for Conversion of Chlorophyll-a to Bacteriochlorophyll-c. Journal of Organic Chemistry, 2007, 72, 4566-4569.	3.2	29
24	Effects of Cyclic Tetrapyrrole Rings of Aggregate-Forming Chlorophyll Derivatives as Hole-Transporting Materials on Performance of Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 9-16.	5.1	27
25	Synthesis of carboxylated chlorophylls and their application as functional materials. Journal of Porphyrins and Phthalocyanines, 2015, 19, 517-526.	0.8	25
26	Chlorophyllâ€Based Organic Heterojunction on Ti ₃ C ₂ T _{<i>x</i>} MXene Nanosheets for Efficient Hydrogen Production. Chemistry - A European Journal, 2021, 27, 5277-5282.	3.3	25
27	Dicyano-functionalized chlorophyll derivatives with ambipolar characteristic for organic photovoltaics. Organic Electronics, 2013, 14, 1972-1979.	2.6	21
28	Aggregate-forming semi-synthetic chlorophyll derivatives / Ti3C2T MXene hybrids for photocatalytic hydrogen evolution. Dyes and Pigments, 2021, 194, 109583.	3.7	21
29	Development of Solar Cells Based on Synthetic Near-Infrared Absorbing Purpurins 2: Use of Fullerene and Its Derivative As Electron Acceptors for Favorable Charge Separation. Journal of Physical Chemistry C, 2012, 116, 21244-21254.	3.1	18
30	Near-infrared absorption bacteriochlorophyll derivatives as biomaterial electron donor for organic solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 347, 49-54.	3.9	18
31	Biosupramolecular bacteriochlorin aggregates as hole-transporters for perovskite solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 639-644.	3.9	18
32	Perovskite solar cells based on chlorophyll hole transporters: Dependence of aggregation and photovoltaic performance on aliphatic chains at C17-propionate residue. Dyes and Pigments, 2019, 162, 763-770.	3.7	18
33	Chlorophyllâ€Based Organic–Inorganic Heterojunction Solar Cells. Chemistry - A European Journal, 2017, 23, 10886-10892.	3.3	17
34	Chlorophyll-based organic solar cells with improved power conversion efficiency. Journal of Energy Chemistry, 2019, 38, 88-93.	12.9	17
35	A chlorophyll derivative-based bio-solar energy conversion and storage device. Electrochimica Acta, 2020, 347, 136283.	5.2	17
36	Semi‧ynthetic Chlorophyll arotenoid Dyad for Dye‧ensitized Photocatalytic Hydrogen Evolution. Advanced Materials Interfaces, 2021, 8, 2101303.	3.7	17

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37	Synthesis of cyclic chlorophyll oligomers. Tetrahedron Letters, 2006, 47, 4965-4968.	1.4	16
38	Bilayer chlorophyll derivatives as efficient hole-transporting layers for perovskite solar cells. Materials Chemistry Frontiers, 2019, 3, 2357-2362.	5.9	16
39	Esterification of Indoline-Based Small-Molecule Donors for Efficient Co-evaporated Organic Photovoltaics. Journal of Physical Chemistry C, 2014, 118, 14785-14794.	3.1	15
40	Chlorophyll derivatives/MXene hybrids for photocatalytic hydrogen evolution: Dependence of performance on the central coordinating metals. International Journal of Hydrogen Energy, 2022, 47, 3824-3833.	7.1	14
41	Generation of carotenoid radical cation in the vicinity of a chlorophyll derivative bound to titanium oxide, upon excitation of the chlorophyll derivative to the Qy state, as identified by time-resolved absorption spectroscopy. Chemical Physics Letters, 2005, 416, 229-233.	2.6	13
42	Chlorophyll- and Bacteriochlorophyll-Derived Colorimetric Chemosensors for Amine Detection. Bulletin of the Chemical Society of Japan, 2009, 82, 267-271.	3.2	13
43	Organic Solar Cells Based on the Aggregate of Synthetic Chlorophyll Derivative with over 5% Efficiency. Solar Rrl, 2019, 3, 1900203.	5.8	13
44	Rotational isomerization of 3-substituents in synthetic chlorophyll derivatives. Tetrahedron, 2016, 72, 6626-6633.	1.9	11
45	Enhancement of performance in chlorophyll-based bulk-heterojunction organic-inorganic solar cells upon aggregate management via solvent engineering. Organic Electronics, 2018, 59, 419-426.	2.6	11
46	Gallium(III) complexes of methyl pyropheophorbide-a as synthetic models for investigation of diastereomerically controlled axial ligation towards chlorophylls. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 1168-1171.	2.2	10
47	Synthesis of Chl@Ti3C2 composites as an anode material for lithium storage. Frontiers of Chemical Science and Engineering, 2021, 15, 709-716.	4.4	10
48	Hydroquinone redox mediator enhances the photovoltaic performances of chlorophyll-based bio-inspired solar cells. Communications Chemistry, 2021, 4, .	4.5	10
49	Chlorophyll derivative intercalation into Nb2C MXene for lithium-ion energy storage. Journal of Materials Science, 2022, 57, 9971-9979.	3.7	10
50	Chlorophyll derivative sensitized monolayer Ti3C2T MXene nanosheets for photocatalytic hydrogen evolution. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 427, 113792.	3.9	10
51	Ti ₃ C ₂ T _{<i>x</i>} MXene nanosheets hybridized with bacteriochlorin–carotenoid conjugates for photocatalytic hydrogen evolution. New Journal of Chemistry, 2022, 46, 2166-2177.	2.8	8
52	Charge Generation and Transfer Mechanism of Bilayer Organic Photovoltaics with Unconventional Energy Alignment. Journal of Physical Chemistry C, 2021, 125, 25680-25686.	3.1	7
53	Charge transfer dynamics in chlorophyll-based biosolar cells. Physical Chemistry Chemical Physics, 2019, 21, 22563-22568.	2.8	6
54	P-type P3HT interfacial layer induced performance improvement in chlorophyll-based solid-state solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 371, 349-354.	3.9	6

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55	Electropolymerized chlorophyll derivative biopolymers for supercapacitors. Chemical Engineering Journal, 2022, 450, 138000.	12.7	6
56	Effect of the Fabrication Method of Chlorophyllâ€Ti ₃ C ₂ T _{<i>x</i>} â€Based Photocatalysts on Noble Metalâ€Free Hydrogen Evolution. Energy Technology, 2022, 10, 2100713.	3.8	5
57	Determination of glycosylated albumin using surface plasmon resonance sensor. Bunseki Kagaku, 2003, 52, 311-317.	0.2	4
58	Evaluation of covalently linked (bacterio)chlorin-fullerenes as components for organic solar cells. Journal of Porphyrins and Phthalocyanines, 2020, 24, 200-210.	0.8	4
59	Synthesis of C3/C13‣ubstituted Semi‣ynthetic Bacteriochlorophyllâ€ <i>a</i> Derivatives and Their Properties as Functional Dyes. ChemPhotoChem, 2020, 4, 5399-5407.	3.0	3
60	Supercapacitor electrodes based on electropolymerized protoporphyrins. Materials Today Energy, 2021, 21, 100830.	4.7	3
61	Quasi-Bilayer All-Small-Molecule Solar Cells Based on a Chlorophyll Derivative and Non-Fullerene Materials with Untraditional Energy Alignments. Journal of Physical Chemistry C, 2022, 126, 4807-4814.	3.1	2
62	Charge-Transfer Mechanism in Chlorophyll Derivative-based Biosolar Cells with Hole-Transporting P3HT Revealed by Sub-Picosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 27900-27906.	3.1	1
63	Bacteriochlorin aggregates as dopant-free hole-transporting materials for perovskite solar cells. Organic Electronics, 2022, 108, 106596.	2.6	1
64	Enhancement of power conversion efficiency by chlorophyll and carotenoid co-sensitization in the biosolar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 431, 114042.	3.9	0