Hitoshi Tamiaki

List of Publications by Year
in descending order

254 papers	7,036 citations	61984 43 h-index	85541 71 g-index
260 all docs	260 docs citations	260 times ranked	3124 citing authors

#	Article	IF	Citations
1	Synthetic Zinc and Magnesium Chlorin Aggregates as Models for Supramolecular Antenna Complexes in Chlorosomes of Green Photosynthetic Bacteria. Photochemistry and Photobiology, 1996, 63, 92-99.	2.5	332
2	The 17-Propionate Function of (Bacterio)chlorophylls: Biological Implication of Their Long Esterifying Chains in Photosynthetic Systems. Photochemistry and Photobiology, 2006, 83, 152-62.	2.5	176
3	Spectral properties of single light-harvesting complexes in bacterial photosynthesis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2010, 11, 15-24.	11.6	171
4	Self-aggregation of synthetic zinc chlorins with a chiral 1-hydroxyethyl group as a model for in vivo epimeric bacteriochlorophyll-c and d aggregates. Tetrahedron, 1998, 54, 6699-6718.	1.9	169
5	X-ray crystal structure of the light-independent protochlorophyllide reductase. Nature, 2010, 465, 110-114.	27.8	168
6	Chlorophyll Derivative-Sensitized TiO₂ Electron Transport Layer for Record Efficiency of Cs₂AgBiBr₆ Double Perovskite Solar Cells. Journal of the American Chemical Society, 2021, 143, 2207-2211.	13.7	154
7	Cyclic tetrapyrrole based molecules for dye-sensitized solar cells. Energy and Environmental Science, 2010, 3, 94-106.	30.8	153
8	Self-Assembly of an Artificial Light-Harvesting Antenna: Energy Transfer from a Zinc Chlorin to a Bacteriochlorin in a Supramolecular Aggregate. Angewandte Chemie International Edition in English, 1996, 35, 772-774.	4.4	137
9	Self-aggregates of natural chlorophylls and their synthetic analogues in aqueous media for making light-harvesting systems. Coordination Chemistry Reviews, 2010, 254, 2593-2602.	18.8	122
10	Chlorophyll-aDerivatives 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
11	Self-aggregates of bacteriochlorophylls-c, d and e in a light-harvesting antenna system of green photosynthetic bacteria: Effect of stereochemistry at the chiral 3-(1-hydroxyethyl) group on the supramolecular arrangement of chlorophyllous pigments. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2005, 6, 89-107.	11.6	112
12	Synthetic zinc tetrapyrroles complexing with pyridine as a single axial ligand. Bioorganic and Medicinal Chemistry, 1998, 6, 2171-2178.	3.0	109
13	A Second Nitrogenase-like Enzyme for Bacteriochlorophyll Biosynthesis. Journal of Biological Chemistry, 2006, 281, 15021-15028.	3.4	100
14	Aggregation of synthetic zinc chlorins with several esterified alkyl chains as models of bacteriochlorophyll-c homologs. Tetrahedron, 1996, 52, 12421-12432.	1.9	99
15	Resonance Raman Spectroscopic Study of Metallochlorin Aggregates. Implications for the Supramolecular Structure in Chlorosomal BChl c Antennae of Green Bacteria. The Journal of Physical Chemistry, 1994, 98, 2192-2197.	2.9	97
16	Efficient Dye-Sensitized Solar Cell Based on oxo-Bacteriochlorin Sensitizers with Broadband Absorption Capability. Journal of Physical Chemistry C, 2009, 113, 7954-7961.	3.1	95
17	51 Photochemistry of Chlorophylls and Their Synthetic Analogs. Handbook of Porphyrin Science, 2011, , 223-290.	0.8	85
18	Synthesis and Self-aggregation of Zinc 20-Halogenochlorins as a Model for Bacteriochlorophylls c/d. Journal of Porphyrins and Phthalocyanines, 1998, 02, 159-169.	0.8	84

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19	Synthesis of chlorophyll-a homologs by Wittig and Knoevenagel reactions with methyl pyropheophorbide-d. Tetrahedron, 1997, 53, 10677-10688.	1.9	80
20	Artificial Lightâ€Harvesting Antennae: Singlet Excitation Energy Transfer from Zinc Chlorin Aggregate to Bacteriochlorin in Homogeneous Hexane Solution. Photochemistry and Photobiology, 1999, 69, 448-456.	2.5	80
21	Self-Assembly of Synthetic Zinc Chlorins in Aqueous Microheterogeneous Media to an Artificial Supramolecular Light-Harvesting Device. Helvetica Chimica Acta, 1999, 82, 797-810.	1.6	79
22	Synthesis of homologously pure bacteriochlorophyll-e and f analogues from BChls-c/d via transformation of the 7-methyl to formyl group and self-aggregation of synthetic zinc methyl bacteriopheophorbides-c/d/e/f in non-polar organic solvent. Tetrahedron, 2003, 59, 4337-4350.	1.9	79
23	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
24	Self-Assembly of Methyl Zinc (31R)- and (31S)-Bacteriopheophorbidesd. Journal of Physical Chemistry B, 1997, 101, 3424-3431.	2.6	69
25	Synthesis and Optical Properties of Bacteriochlorophyll-aDerivatives Having Various C3 Substituents on the Bacteriochlorin Ï€-System. Journal of Organic Chemistry, 2006, 71, 2648-2654.	3.2	66
26	Asymmetric synthesis of methyl bacteriopheophorbide-d and analogues by stereoselective reduction of the 3-acetyl to the 3-(1-hydroxyethyl) group. Tetrahedron: Asymmetry, 1998, 9, 2101-2111.	1.8	65
27	A seventh bacterial chlorophyll driving a large light-harvesting antenna. Scientific Reports, 2012, 2, 671.	3.3	64
28	Construction of Chlorosomal Rod Selfâ€Aggregates in the Solid State on Any Substrates from Synthetic Chlorophyll Derivatives Possessing an Oligomethylene Chain at the 17â€Propionate Residue. Chemistry - A European Journal, 2012, 18, 13331-13341.	3.3	63
29	A synthetic zinc chlorin aggregate as a model for the supramolecular antenna complexes in the chlorosomes of green bacteria. Journal of Photochemistry and Photobiology B: Biology, 1992, 15, 355-360.	3.8	61
30	Transmission electron microscopic study on supramolecular nanostructures of bacteriochlorophyll self-aggregates in chlorosomes of green photosynthetic bacteria. Journal of Bioscience and Bioengineering, 2006, 102, 118-123.	2.2	60
31	Significant enhancement in the power-conversion efficiency of chlorophyll co-sensitized solar cells by mimicking the principles of natural photosynthetic light-harvesting complexes. Biosensors and Bioelectronics, 2010, 25, 1970-1976.	10.1	60
32	Self-aggregates of natural and modified chlorophylls as photosynthetic light-harvesting antenna systems: substituent effect on the B-ring. Photochemical and Photobiological Sciences, 2005, 4, 675.	2.9	58
33	Dopantâ€Free Zinc Chlorophyll Aggregates as an Efficient Biocompatible Hole Transporter for Perovskite Solar Cells. ChemSusChem, 2016, 9, 2862-2869.	6.8	58
34	Photoactive Znâ€Chlorophyll Hole Transporterâ€Sensitized Leadâ€Free Cs₂AgBiBr₆ Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000166.	5.8	58
35	An unexpectedly branched biosynthetic pathway for bacteriochlorophyll b capable of absorbing near-infrared light. Scientific Reports, 2013, 3, 1217.	3.3	56
36	Aggregation of synthetic metallochlorins in hexane. A model of chlorosomal bacteriochlorophyll self-assemblies in green bacteria. Photosynthesis Research, 2002, 71, 59-67.	2.9	51

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37	Synthesis and optical properties of C3-ethynylated chlorin and Ï€-extended chlorophyll dyads. Tetrahedron, 2011, 67, 6065-6072.	1.9	51
38	Dyad Sensitizer of Chlorophyll with Indoline Dye for Panchromatic Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2018, 1, 2813-2820.	5.1	51
39	Direct Counting of Submicrometer-Sized Photosynthetic Apparatus Dispersed in Medium at Cryogenic Temperature by Confocal Laser Fluorescence Microscopy:â€‰ Estimation of the Number of Bacteriochlorophyll c in Single Light-Harvesting Antenna Complexes Chlorosomes of Green Photosynthetic Bacteria. Journal of Physical Chemistry B, 2007, 111, 12605-12609.	2.6	50
40	Nanotubes of Biomimetic Supramolecules Constructed by Synthetic Metal Chlorophyll Derivatives. Nano Letters, 2016, 16, 3650-3654.	9.1	50
41	Synthesis and self-assembly of amphiphilic zinc chlorins possessing a 31-hydroxy group. Tetrahedron, 2002, 58, 9989-10000.	1.9	49
42	Chlorosomeâ€Like Molecular Aggregation of Chlorophyll Derivative on Ti₃C₂T_x MXene Nanosheets for Efficient Noble Metalâ€Free Photocatalytic Hydrogen Evolution. Advanced Materials Interfaces, 2020, 7, 1902080.	3.7	49
43	Ubiquity and quantitative significance of detoxification catabolism of chlorophyll associated with protistan herbivory. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17328-17335.	7.1	48
44	Bilayer Chlorophyll-Based Biosolar Cells Inspired from the Z-Scheme Process of Oxygenic Photosynthesis. ACS Energy Letters, 2018, 3, 1708-1712.	17.4	46
45	Synthesis, modification, and optical properties of C3-ethynylated chlorophyll derivatives. Tetrahedron Letters, 2008, 49, 4113-4115.	1.4	44
46	Semisynthetic Chlorophyll Derivatives Toward Solar Energy Applications. Solar Rrl, 2020, 4, 2000162.	5.8	43
47	Why do chlorosomal chlorophylls lack the C132 -methoxycarbonyl moiety? An in vitro model study. Photosynthesis Research, 1999, 61, 23-31.	2.9	42
48	Dimerization of synthetic zinc aminochlorins in non-polar organic solvents. Photosynthesis Research, 1994, 41, 245-251.	2.9	41
49	Pure and Scrambled Self-Aggregates Prepared with Zinc Analogues of Bacteriochlorophyllsc andd. ChemBioChem, 2001, 2, 335-342.	2.6	41
50	Structural determination of dihydro- and tetrahydrogeranylgeranyl groups at the 17-propionate of bacteriochlorophylls-a. FEBS Letters, 2006, 580, 6644-6648.	2.8	41
51	Development of Solar Cells Based on Synthetic Near-Infrared Absorbing Purpurins: Observation of Multiple Electron Injection Pathways at Cyclic Tetrapyrroleâ€“Semiconductor Interface. Journal of Physical Chemistry C, 2011, 115, 24394-24402.	3.1	41
52	Self-Aggregation of Synthetic Zinc Oxo-Bacteriochlorins Bearing Substituents Characteristic of Chlorosomal Chlorophylls. Journal of Organic Chemistry, 2005, 70, 820-828.	3.2	40
53	Reduction Processes in Biosynthesis of Chlorophyll Molecules: Chemical Implication of Enzymatically Regio- and Stereoselective Hydrogenations in the Late Stages of Their Biosynthetic Pathway. Bulletin of the Chemical Society of Japan, 2016, 89, 161-173.	3.2	38
54	Synthesis of 32-substituted bacteriochlorophyll-d analogs and their self-aggregation in a nonpolar organic solvent. Tetrahedron, 2009, 65, 628-637.	1.9	37

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55	A dye-sensitized solar cell using pheophytinâ€“carotenoid adduct: Enhancement of photocurrent by electron and singlet-energy transfer and by suppression of singletâ€“triplet annihilation due to the presence of the carotenoid moiety. Chemical Physics Letters, 2007, 439, 115-120.	2.6	36
56	Stereochemical determination of the unique acrylate moiety at the 17-position in chlorophylls-c from a diatom Chaetoseros calcitrans and its effect upon electronic absorption properties. Organic and Biomolecular Chemistry, 2009, 7, 2120.	2.8	36
57	Supramolecular chlorophyll aggregates inspired from specific light-harvesting antenna â€œchlorosomeâ€: Static nanostructure, dynamic construction process, and versatile application. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2020, 45, 100385.	11.6	36
58	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
59	Diastereoselective Control of Aggregation of 31-Epimeric Zinc Methyl Bacteriopheophorbides-din Apolar Solvents. Chemistry Letters, 1994, 23, 401-402.	1.3	34
60	MAS NMR Structure of a Microcrystalline Cd-BacteriochlorophylldAnalogue. Journal of the American Chemical Society, 2003, 125, 13374-13375.	13.7	34
61	Crystal Structures of BchU, a Methyltransferase Involved in Bacteriochlorophyll c Biosynthesis, and its Complex with S-adenosylhomocysteine: Implications for Reaction Mechanism. Journal of Molecular Biology, 2006, 360, 839-849.	4.2	34
62	Synthesis of 3,20-disubstituted chlorophyll-a derivatives and reactivity of the substituents. Tetrahedron, 2013, 69, 8412-8421.	1.9	34
63	Zinc chlorophyll aggregates as hole transporters for biocompatible, natural-photosynthesis-inspired solar cells. Journal of Power Sources, 2015, 297, 519-524.	7.8	34
64	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
65	Effects of C8-substituents on spectroscopic and self-aggregation properties of synthetic bacteriochlorophyll-d analogues. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 162, 307-315.	3.9	32
66	Trilayer Chlorophyll-Based Cascade Biosolar Cells. ACS Energy Letters, 2019, 4, 384-389.	17.4	32
67	Facile Synthesis of 131-Oxo-porphyrins Possessing Reactive 3-Vinyl or 3-Formyl Group, Protochlorophyll-a/dDerivatives by 17,18-Dehydrogenation of Chlorins. Journal of Porphyrins and Phthalocyanines, 1999, 03, 45-52.	0.8	31
68	Specific Gene bciD for C7-Methyl Oxidation in Bacteriochlorophyll e Biosynthesis of Brown-Colored Green Sulfur Bacteria. PLoS ONE, 2013, 8, e60026.	2.5	31
69	Self-assembly of synthetic 81-hydroxy-chlorophyll analogues. Journal of Photochemistry and Photobiology B: Biology, 1999, 52, 74-85.	3.8	30
70	Cooperative C3â€•and C13â€Substituent Effects on Synthetic Chlorophyll Derivatives. European Journal of Organic Chemistry, 2010, 2010, 5287-5291.	2.4	30
71	A Facile Synthetic Method for Conversion of Chlorophyll-a to Bacteriochlorophyll-c. Journal of Organic Chemistry, 2007, 72, 4566-4569.	3.2	29
72	Demetalation of Chlorophyll Pigments. Chemistry and Biodiversity, 2012, 9, 1659-1683.	2.1	29

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73	Asymmetry of chlorophylls in photosynthetic proteins: from the viewpoint of coordination chemistry. Journal of Porphyrins and Phthalocyanines, 2014, 18, 919-932.	0.8	29
74	Synthesis and self-aggregation of zinc chlorophylls possessing an ï‰-hydroxyalkyl group: effect of distance between interactive hydroxy group and chlorin moiety on aggregationAlternative synthetic approach for 12 and 12D and IR spectra of the precipitates of 3D are available as supplementary data. For direct electronic access see http://www.rsc.org/suppdata/p1/b1/b107902f. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 3135-3144.	1.3	28
75	Accumulation of chlorophyllous pigments esterified with the geranylgeranyl group and photosynthetic competence in the CT2256-deleted mutant of the green sulfur bacterium Chlorobium tepidum. Photochemical and Photobiological Sciences, 2008, 7, 1179-1187.	2.9	28
76	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
77	Phototriggered Dynamic and Biomimetic Growth of Chlorosomal Self-Aggregates. Journal of the American Chemical Society, 2019, 141, 1207-1211.	13.7	27
78	In vitro activity of C-20 methyltransferase, BchU, involved in bacteriochlorophyllcbiosynthetic pathway in green sulfur bacteria. FEBS Letters, 2005, 579, 1983-1987.	2.8	26
79	Completion of biosynthetic pathways for bacteriochlorophyll g in Heliobacterium modesticaldum: The C8-ethylidene group formation. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 1200-1204.	1.0	26
80	Chlorophyllide a Oxidoreductase Works as One of the Divinyl Reductases Specifically Involved in Bacteriochlorophyll a Biosynthesis. Journal of Biological Chemistry, 2014, 289, 12716-12726.	3.4	26
81	Stereochemical determination of chlorophyll-d molecule from Acaryochloris marina and its modification to a self-aggregative chlorophyll as a model of green photosynthetic bacterial antennae. Photochemical and Photobiological Sciences, 2006, 5, 291-299.	2.9	25
82	Bacteriochlorophyll homolog compositions in the bchU mutants of green sulfur bacteria. Photochemical and Photobiological Sciences, 2013, 12, 2195-2201.	2.9	25
83	Synthesis of carboxylated chlorophylls and their application as functional materials. Journal of Porphyrins and Phthalocyanines, 2015, 19, 517-526.	0.8	25
84	Chlorophyllâ€Based Organic Heterojunction on Ti₃C₂T_x MXene Nanosheets for Efficient Hydrogen Production. Chemistry - A European Journal, 2021, 27, 5277-5282.	3.3	25
85	Stereochemical conversion of <scp>C</scp>3â€vinyl group to 1â€hydroxyethyl group in bacteriochlorophyll c by the hydratases <scp>BchF</scp> and <scp>BchV</scp>: adaptation of green sulfur bacteria to limitedâ€light environments. Molecular Microbiology, 2015, 98, 1184-1198.	2.5	24
86	Synthesis and physical properties of carbonylated chlorophyll derivatives. Tetrahedron, 2015, 71, 1915-1923.	1.9	24
87	Diastereoselective Selfâ€aggregation of Synthetic 3â€(1â€Hydroxyethyl)â€bacteriopyrochlophyllâ€a as a Novel Photosynthetic Antenna Model Absorbing Near the Infrared Region^{Â¶}. Photochemistry and Photobiology, 2004, 79, 55-61.	2.5	23
88	Reduction of vinyl groups in naturally occurring chlorophylls-a. Bioorganic and Medicinal Chemistry, 2011, 19, 52-57.	3.0	23
89	Coherent Oscillations in Chlorosome Elucidated by Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2014, 5, 1386-1392.	4.6	23
90	Inactivation of bciD and bchU genes in the green sulfur bacterium Chlorobaculum limnaeum and alteration of photosynthetic pigments in the resultant mutants. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 313, 52-59.	3.9	23

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91	Inâ€…Vivo Energy Transfer from Bacteriochlorophyllâ€…c, d, e, or f to Bacteriochlorophyllâ€…a in Wildâ€Type and Mutant Cells of the Green Sulfur Bacterium Chlorobaculum limnaeum. ChemPhotoChem, 2018, 2, 190-195.	3.0	23
92	Synthesis of carboxylated chlorophyll derivatives and their activities in dye-sensitized solar cells. Tetrahedron, 2018, 74, 4078-4085.	1.9	23
93	Composition and localization of bacteriochlorophyll a intermediates in the purple photosynthetic bacterium Rhodopseudomonas sp. Rits. Photosynthesis Research, 2008, 95, 213-221.	2.9	22
94	Self-aggregation of synthetic multi-hydroxylated zinc chlorophylls. Tetrahedron, 2010, 66, 1228-1235.	1.9	22
95	Characterization of chlorophyll pigments in the mutant lacking 8-vinyl reductase of green photosynthetic bacterium Chlorobaculum tepidum. Bioorganic and Medicinal Chemistry, 2012, 20, 6803-6810.	3.0	22
96	Self-aggregates of synthetic zinc chlorins as the photosensitizer on carbon paste electrodes for a novel solar cell. Journal of Electroanalytical Chemistry, 2001, 496, 13-20.	3.8	21
97	Dicyano-functionalized chlorophyll derivatives with ambipolar characteristic for organic photovoltaics. Organic Electronics, 2013, 14, 1972-1979.	2.6	21
98	Synthesis of Zinc Chlorophyll Homo/Heteroâ€Dyads and their Folded Conformers with Porphyrin, Chlorin, and Bacteriochlorin Ï€â€Systems. Photochemistry and Photobiology, 2014, 90, 121-128.	2.5	21
99	Risk Management by Organisms of the Phototoxicity of Chlorophylls. Chemistry Letters, 2014, 43, 148-156.	1.3	21
100	Aggregate-forming semi-synthetic chlorophyll derivatives / Ti3C2T MXene hybrids for photocatalytic hydrogen evolution. Dyes and Pigments, 2021, 194, 109583.	3.7	21
101	Kinetic analysis of demetalation of bacteriochlorophyllcandehomologs purified from green sulfur photosynthetic bacteria. FEBS Letters, 2007, 581, 1847-1850.	2.8	20
102	Covalently linked zinc chlorophyll dimers as a model of a chlorophyllous pair in photosynthetic reaction centers. Photochemical and Photobiological Sciences, 2008, 7, 1231.	2.9	20
103	Supramolecular energy transfer from photoexcited chlorosomal zinc porphyrin self-aggregates to a chlorin or bacteriochlorin monomer as models of main light-harvesting antenna systems in green photosynthetic bacteria. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5218-5221.	2.2	20
104	In VitroAssays of BciC Showing C13²-Demethoxycarbonylase Activity Requisite for Biosynthesis of Chlorosomal Chlorophyll Pigments. Plant and Cell Physiology, 2016, 57, 1048-1057.	3.1	20
105	Facile synthesis of chlorophyll analog possessing a disulfide bond and formation of self-assembled monolayer on gold surface. Journal of Photochemistry and Photobiology B: Biology, 2004, 73, 29-34.	3.8	19
106	Coaggregate of amphiphilic zinc chlorins with synthetic surfactants in an aqueous medium to an artificial supramolecular light-harvesting system. Bioorganic and Medicinal Chemistry, 2004, 12, 2173-2178.	3.0	19
107	Coordinationâ€Driven Dimerization of Zinc Chlorophyll Derivatives Possessing a Dialkylamino Group. Chemistry - an Asian Journal, 2017, 12, 759-767.	3.3	19
108	13²,17³â€Cyclopheophorbide b enol as a catabolite of chlorophyll b in phycophagy by protists. FEBS Letters, 2013, 587, 2578-2583.	2.8	18

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109	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
110	Biosupramolecular bacteriochlorin aggregates as hole-transporters for perovskite solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 639-644.	3.9	18
111	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
112	Synthesis of chlorophyll derivatives possessing a mono/bi/terpyridinyl group at the C3-ethynyl terminalÂandÂopticalÂproperties of the Ï€-conjugates. Tetrahedron, 2014, 70, 2731-2737.	1.9	17
113	Chlorophyllâ€Based Organicâ€“Inorganic Heterojunction Solar Cells. Chemistry - A European Journal, 2017, 23, 10886-10892.	3.3	17
114	A chlorophyll derivative-based bio-solar energy conversion and storage device. Electrochimica Acta, 2020, 347, 136283.	5.2	17
115	Self-Assembly of Synthetic Bacteriochlorophyll-fAnalogues Having C8-Formyl Group. Bulletin of the Chemical Society of Japan, 2004, 77, 797-800.	3.2	16
116	Time-dependent Self-assembly of 31-epimerically Pure and Mixed Zinc Methyl Bacteriopheophorbides-d in an Aqueous THF Solution. Photosynthesis Research, 2005, 86, 131-136.	2.9	16
117	Synthesis of cyclic chlorophyll oligomers. Tetrahedron Letters, 2006, 47, 4965-4968.	1.4	16
118	The 17-propionate esterifying variants of bacteriochlorophyll-a and bacteriopheophytin-a in purple photosynthetic bacteria. Journal of Photochemistry and Photobiology B: Biology, 2015, 142, 244-249.	3.8	16
119	Rhodobacter sphaeroides mutants overexpressing chlorophyllide a oxidoreductase of Blastochloris viridis elucidate functions of enzymes in late bacteriochlorophyll biosynthetic pathways. Scientific Reports, 2015, 5, 9741.	3.3	16
120	Excitonic Relaxation and Coherent Vibrational Dynamics in Zinc Chlorin Aggregates for Artificial Photosynthetic Systems. Journal of Physical Chemistry B, 2015, 119, 12265-12273.	2.6	16
121	Bilayer chlorophyll derivatives as efficient hole-transporting layers for perovskite solar cells. Materials Chemistry Frontiers, 2019, 3, 2357-2362.	5.9	16
122	Synthesis of galactosylated zinc bacteriochlorophyll-d analogs and their self-aggregation in an aqueous methanol solution. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 207, 115-125.	3.9	15
123	Synthesis, optical properties and protonation of chlorophyll derivatives appending a pyridyl group in the C3-substituent. Dyes and Pigments, 2015, 118, 159-165.	3.7	15
124	Synthesis of chlorophyll- a derivatives methylated in the 3-vinyl group and their intrinsic site energy. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3034-3037.	2.2	15
125	Bioinspired supramolecular nanosheets of zinc chlorophyll assemblies. Scientific Reports, 2019, 9, 14006.	3.3	15
126	Temperature-dependent spectral changes of self-aggregates of zinc chlorophylls esterified by different linear alcohols at the 17-propionate. Supramolecular Chemistry, 2009, 21, 738-746.	1.2	14

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127	Isolation and pigment composition of the reaction centers from purple photosynthetic bacterium Rhodopseudomonas palustris species. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 395-400.	1.0	14
128	Synthesis, crystal structure, and electronic absorption of chlorophyll derivatives possessing a Î²-diketonate moiety at the C3 position. Tetrahedron Letters, 2013, 54, 1243-1246.	1.4	14
129	Reconstruction of rod self-aggregates of natural bacteriochlorophylls-c from Chloroflexus aurantiacus. Chemical Physics Letters, 2013, 578, 102-105.	2.6	14
130	Synthesis of 20-iodochlorophyll derivatives and their properties including reactivity, electronic absorption, and self-aggregation. Tetrahedron, 2014, 70, 9768-9775.	1.9	14
131	Preparation of mono-vinylated and formylated chlorophyll derivatives and their optical properties. Tetrahedron, 2016, 72, 4368-4376.	1.9	14
132	Synthesis and Self-Aggregation of Ï€-Expanded Chlorophyll Derivatives to Construct Light-Harvesting Antenna Models. Journal of Organic Chemistry, 2018, 83, 4355-4364.	3.2	14
133	Semi-synthesis and HPLC analysis of (bacterio)chlorophyllides possessing a propionic acid residue at the C17-position. Journal of Porphyrins and Phthalocyanines, 2018, 22, 423-436.	0.8	14
134	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
135	Aggregation of Synthetic Zinc Complexes of Cyclotetrapyrroles. Chemistry Letters, 1996, 25, 639-640.	1.3	13
136	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
137	Chlorophyll- and Bacteriochlorophyll-Derived Colorimetric Chemosensors for Amine Detection. Bulletin of the Chemical Society of Japan, 2009, 82, 267-271.	3.2	13
138	In vitro stereospecific hydration activities of the 3-vinyl group of chlorophyll derivatives by BchF and BchV enzymes involved in bacteriochlorophyll c biosynthesis of green sulfur bacteria. Photosynthesis Research, 2016, 130, 33-45.	2.9	13
139	Selfâ€Assemblies of Zinc Bacteriochlorophyllâ€d Analogues Having Amide, Ester, and Urea Groups as Substituents at 17â€Position and Observation of Lamellar Supramolecular Nanostructures. ChemPhysChem, 2018, 19, 913-920.	2.1	13
140	Fabrication and performance of all-solid-state dye-sensitized solar cells using synthetic carboxylated and pyridylated chlorophyll derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 625-630.	3.9	13
141	Organic Solar Cells Based on the Aggregate of Synthetic Chlorophyll Derivative with over 5% Efficiency. Solar Rrl, 2019, 3, 1900203.	5.8	13
142	Self-aggregates of a synthetic cadmium chlorin in solid film as a photosynthetic antenna model. Bioorganic and Medicinal Chemistry, 1999, 7, 1141-1144.	3.0	12
143	Structural determination of the Î”2, 10-phytadienyl substituent in the 17-propionate of bacteriochlorophyll-b fromHalorhodospira halochloris. Journal of Porphyrins and Phthalocyanines, 2009, 13, 41-50.	0.8	12
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