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	Synthesis and <scp>Selfâ€Aggregation</scp> of Chlorophyllâ€a Derivatives Possessing a Hydroxymethyl Group in the <scp>C20â€Substituent</scp> with Ethynylene and/or Phenylene Linkers. Photochemistry and Photobiology, 2023, 99, 35-44.	2.5	1
2	Effect of the Fabrication Method of Chlorophyllâ€Ti₃C₂T_xâ€Based Photocatalysts on Noble Metalâ€Free Hydrogen Evolution. Energy Technology, 2022, 10, 2100713.	3.8	5
3	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
4	Visible-light-induced hydrogen evolution from water on hybrid photocatalysts consisting of synthetic chlorophyll-a derivatives with a carboxy group in the 20-substituent adsorbed on semiconductors. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113750.	3.9	3
5	Chlorophyll derivative intercalation into Nb2C MXene for lithium-ion energy storage. Journal of Materials Science, 2022, 57, 9971-9979.	3.7	10
6	Excited-state dynamics of dipyrrolyldiketone difluoroboron complexes. Physical Chemistry Chemical Physics, 2022, 24, 1685-1691.	2.8	0
7	Chlorophyll derivative sensitized monolayer Ti3C2T MXene nanosheets for photocatalytic hydrogen evolution. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 427, 113792.	3.9	10
8	Substituted Methylenation at the 13²â€Position of a Chlorophyllâ€a Derivative via Mixed Aldol Condensation, Optical Properties of the Synthetic Bacteriochlorophyllâ€d Analogs, and Selfâ€aggregation of Their Zinc Complexes^{â€}. Photochemistry and Photobiology, 2022, 98, 1059-1067.	2.5	1
9	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
10	Incomplete Hydrogenation by Geranylgeranyl Reductase from a Proteobacterial Phototroph Halorhodospira halochloris, Resulting in the Production of Bacteriochlorophyll with a Tetrahydrogeranylgeranyl Tail. Journal of Bacteriology, 2022, 204, jb0060521.	2.2	4
11	Regioselective alkylation at the inner nitrogen atom of a chlorophyll-a derivative and optical properties of the synthetic N-centered stereoisomers. Tetrahedron, 2022, , 132829.	1.9	0
12	Intramolecular axial Î±/Î²-coordination of the 13²-terminal pyridyl group to the central zinc atom in chlorophyll-a derivatives. Organic and Biomolecular Chemistry, 2022, 20, 6339-6350.	2.8	1
13	Characterization of regioisomeric diterpenoid tails in bacteriochlorophylls produced by geranylgeranyl reductase from Halorhodospira halochloris and Blastochloris viridis. Photosynthesis Research, 2022, 154, 1-12.	2.9	2
14	Self-aggregation of zinc bacteriochlorophyll-d analog bearing B-ring reduced chlorin and 17-acrylate residue. Tetrahedron, 2021, 81, 131853.	1.9	2
15	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
16	Chlorophyllâ€Based Organic Heterojunction on Ti₃C₂T_x MXene Nanosheets for Efficient Hydrogen Production. Chemistry - A European Journal, 2021, 27, 5277-5282.	3.3	25
17	Synthesis of Highly Fluorescent Cationic Chlorophyll-a Derivatives Possessing a p-Aminopyridinio Group at the 31-Position. Bulletin of the Chemical Society of Japan, 2021, 94, 1201-1203.	3.2	4
18	Detection of 132-carboxy-chlorin produced by the in vitro BciC enzymatic hydrolysis of zinc chlorophyllide. Bioorganic and Medicinal Chemistry Letters, 2021, 40, 127931.	2.2	2

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19	Synthesis of 20-Deuterated Bacteriochlorophyll-dHomolog and Its 3¹-Epimerically Controlled Self-aggregation. Chemistry Letters, 2021, 50, 1539-1542.	1.3	2
20	Supramolecular Nanofibers Constructed by Hydrogen Bonding of Chlorophyll Dimer. Chemistry Letters, 2021, 50, 999-1001.	1.3	1
21	Physicochemical and biochemical properties of synthetic zinc 131-(un)substituted chlorophyll-a derivatives. Tetrahedron, 2021, 88, 132151.	1.9	3
22	3¹-Substituent-dependent Self-aggregation of Bacteriochlorophyll-d Analogs in Aqueous Micelles. Chemistry Letters, 2021, 50, 1551-1554.	1.3	3
23	Synthesis of 20-substituted chlorophyll derivatives with F-ring and optical properties of their less distorted chlorin ï€-systems. Tetrahedron, 2021, 93, 132260.	1.9	2
24	Self-aggregation of Synthetic 20-O-Substituted Bacteriochlorophyll-d Analogs. Chemistry Letters, 2021, 50, 1416-1418.	1.3	3
25	Hydroquinone redox mediator enhances the photovoltaic performances of chlorophyll-based bio-inspired solar cells. Communications Chemistry, 2021, 4, .	4.5	10
26	Self-aggregation of synthetic zinc 3-hydroxymethyl-chlorophyll-a derivatives possessing electron-withdrawing groups at the 20-position in aqueous micelle solution. Journal of Porphyrins and Phthalocyanines, 2021, 25, 1104-1110.	0.8	2
27	Aggregate-forming semi-synthetic chlorophyll derivatives / Ti3C2T MXene hybrids for photocatalytic hydrogen evolution. Dyes and Pigments, 2021, 194, 109583.	3.7	21
28	Synthesis of 132,173-cyclopheophorbides and their optical properties. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 420, 113490.	3.9	2
29	Exciton delocalization length in chlorosomes investigated by lineshape dynamics of two-dimensional electronic spectra. Physical Chemistry Chemical Physics, 2021, 23, 24111-24117.	2.8	4
30	Synthesis of chlorophyll-a derivative inserting an ethynylene group between the carboxylic acid moiety and chlorin ï€-skeleton and its photosensitizing efficiency in dye-sensitized solar cell. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 424, 113633.	3.9	1
31	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
32	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
33	Synthesis of chlorophyll-a homologs by C132-substitutions and their physico- and biochemical properties. Bioorganic Chemistry, 2020, 94, 103383.	4.1	5
34	Synthesis of zinc bacteriochlorophyll-d analogs bearing an alkoxyimino group at the 131-position and their self-aggregation in an aqueous micelle solution. Tetrahedron Letters, 2020, 61, 151386.	1.4	5
35	Thermo-Plasmonic Trapping of Living Cyanobacteria on a Gold Nanopyramidal Dimer Array: Implications for Plasmonic Biochips. ACS Applied Nano Materials, 2020, 3, 10067-10072.	5.0	10
36	In vitro C132-dealkoxycarbonylations of zinc chlorophyll a derivatives including C132-substitutes by a BciC enzyme. Bioorganic Chemistry, 2020, 102, 104111.	4.1	4

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37	In Vitro Hydrolysis of Zinc Chlorophyllide a Homologues by a BciC Enzyme. Biochemistry, 2020, 59, 4622-4626.	2.5	5
38	Effect of additional hydroxy group on self-aggregation of synthetic zinc bacteriochlorophyll-c analogs. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112592.	3.9	5
39	Amphiphilic zinc chlorin as an effective gelator in methanolâ€“water mixtures. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112683.	3.9	1
40	Synthesis of Fluorinated Chlorophyllsâ€•a and Their Bio/Physicoâ€Chemical Properties. European Journal of Organic Chemistry, 2020, 2020, 5537-5543.	2.4	8
41	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
42	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
43	Site-selective C20-fluorinations of chlorophyll-a derivatives using N-fluorobenzenesulfonimide and their optical properties. Tetrahedron, 2020, 76, 131722.	1.9	0
44	A chlorophyll derivative-based bio-solar energy conversion and storage device. Electrochimica Acta, 2020, 347, 136283.	5.2	17
45	Synthesis of Cationic Pyridiniumâ€“Chlorin Conjugates with Various Counter Anions and Effects of the Anions on Their Photophysical Properties. Bulletin of the Chemical Society of Japan, 2020, 93, 467-476.	3.2	6
46	Growth model of chlorosome antenna by the environment-dependent stepwise assembly of a zinc chlorophyll derivative. Photosynthesis Research, 2020, 145, 129-134.	2.9	2
47	Chlorophyllide a oxidoreductase Preferentially Catalyzes 8â€Vinyl Reduction over Bâ€Ring Reduction of 8â€Vinyl Chlorophyllide a in the Late Steps of Bacteriochlorophyll Biosynthesis. ChemBioChem, 2020, 21, 1760-1766.	2.6	2
48	A Synthetic Chlorophyll Dimer Appending Fullerene: Effect of Chlorophyll Pairing on (Photo)redox Properties. Chemistry - A European Journal, 2020, 26, 8897-8906.	3.3	3
49	Synthesis of Sedimentary Porphyrin-like Chlorophyll-a Derivatives Lacking the 3-Substituent. Chemistry Letters, 2020, 49, 287-289.	1.3	2
50	Synthesis of zinc 13-oxime-functionalized chlorophyll-a derivatives and their (131E/Z)-dependent self-aggregation. Tetrahedron, 2020, 76, 131300.	1.9	5
51	Facile 132-methylation of chlorophyll-a derivative and (132R/S)-stereoselective self-aggregation of zinc bacteriochlorophyll-d analogs. Tetrahedron Letters, 2020, 61, 152167.	1.4	5
52	Synthesis of C3/C13â€Substituted Semiâ€Synthetic Bacteriochlorophyllâ€a Derivatives and Their Properties as Functional Dyes. ChemPhotoChem, 2020, 4, 5399-5407.	3.0	3
53	Self-Aggregation abilities of synthetic bacteriochlorophyll-d analogs bearing a propargyl- or benzyl-type alcohol. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112556.	3.9	4
54	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

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55	Photoactivated Supramolecular Assembly Using â€œCaged Chlorophyllsâ€•for the Generation of Nanotubular Self-Aggregates Having Controllable Lengths. ACS Applied Nano Materials, 2020, 3, 1841-1847.	5.0	12
56	Synthesis and Selfâ€Aggregation of Chlorophyllâ€•a Derivatives with Ethynylene and Phenylene Groups Inserted Between the Hydroxymethyl Group and the Chlorin Ï€â€Skeleton. ChemPhotoChem, 2020, 4, 338-346.	3.0	6
57	Photoactive Znâ€Chlorophyll Hole Transporterâ€Sensitized Leadâ€Free Cs₂AgBiBr₆ Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000166.	5.8	58
58	Semisynthetic Chlorophyll Derivatives Toward Solar Energy Applications. Solar Rrl, 2020, 4, 2000162.	5.8	43
59	Covalent heterodyads of synthetic chlorophyll derivatives linked with linear rigid substituents at the 20-positions constructing photoexcited energy transfer systems. Tetrahedron, 2020, 76, 131130.	1.9	6
60	BciCâ€Catalyzed C13 2 â€Demethoxycarbonylation of Metal Pheophorbideâ€… a Alkyl Esters. ChemBioChem, 2020, 21, 1473-1480.	2.6	6
61	Intramolecular interaction of synthetic chlorophyll heterodyads with different Ï€-skeletons. Photochemical and Photobiological Sciences, 2020, 19, 332-340.	2.9	5
62	Synthesis ofN-methylated unsymmetric porphyrinoids with restrictedN-centered chirality from chlorophyll-a. Organic and Biomolecular Chemistry, 2020, 18, 9800-9804.	2.8	3
63	Photosensitizer and anticancer drug-loaded 2D nanosheet: Preparation, stability and anticancer property. 2D Materials, 2019, 6, 045035.	4.4	9
64	Synthesis of Cationic Pyridiniumâ€(Bacterio)Chlorophyll Conjugates Bearing a Bacteriochlorin, Chlorin, or Porphyrin Ï€â€Skeleton and their Photophysical and Electrochemical Properties. European Journal of Organic Chemistry, 2019, 2019, 6333-6340.	2.4	7
65	Bilayer chlorophyll derivatives as efficient hole-transporting layers for perovskite solar cells. Materials Chemistry Frontiers, 2019, 3, 2357-2362.	5.9	16
66	Organic Solar Cells Based on the Aggregate of Synthetic Chlorophyll Derivative with over 5% Efficiency. Solar Rrl, 2019, 3, 1900203.	5.8	13
67	Palladium-Catalyzed Acylation of Terminal Alkynes toward 3-Ynone-Linked Chlorophyll-a Derivatives and Their Optical Properties. Journal of Organic Chemistry, 2019, 84, 16116-16123.	3.2	2
68	Charge transfer dynamics in chlorophyll-based biosolar cells. Physical Chemistry Chemical Physics, 2019, 21, 22563-22568.	2.8	6
69	Visible-light driven hydrogen production using chlorophyll derivatives conjugated with a viologen moiety in the presence of platinum nanoparticles. Photochemical and Photobiological Sciences, 2019, 18, 2673-2681.	2.9	8
70	Bioinspired supramolecular nanosheets of zinc chlorophyll assemblies. Scientific Reports, 2019, 9, 14006.	3.3	15
71	Heterodimers of zinc and free-base chlorophyll derivatives co-assembled in biomimetic chlorosomal J-aggregates. Photochemical and Photobiological Sciences, 2019, 18, 555-562.	2.9	8
72	Unusual features in the photosynthetic machinery of Halorhodospira halochloris DSM 1059 revealed by complete genome sequencing. Photosynthesis Research, 2019, 140, 311-319.	2.9	12

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73	Ring-size controlled dimerization of synthetic zinc chlorophyll derivatives possessing a 1-azacycloalkyl group through mutual coordination of amino moiety to central zinc atom. Tetrahedron, 2019, 75, 3977-3981.	1.9	5
74	C3¹-Selective substitution of cationic N-heteroaromatic groups into a 3-vinylated chlorophyll-a derivative. Organic and Biomolecular Chemistry, 2019, 17, 5490-5495.	2.8	9
75	Stereoselective self-aggregation of synthetic zinc 31-epimeric bacteriochlorophyll-d analogs possessing a methylene group at the 132-position as models of green photosynthetic bacterial chlorosomes. Photochemical and Photobiological Sciences, 2019, 18, 1218-1227.	2.9	9
76	Taming chlorophylls by early eukaryotes underpinned algal interactions and the diversification of the eukaryotes on the oxygenated Earth. ISME Journal, 2019, 13, 1899-1910.	9.8	10
77	Supramolecular light-harvesting antenna system by co-aggregates of zinc (bacterio)chlorophyll-a derivatives with biomimetic chlorosomal self-assemblies. Dyes and Pigments, 2019, 160, 514-518.	3.7	9
78	In vitro demethoxycarbonylation of various chlorophyll analogs by a BciC enzyme. Photosynthesis Research, 2019, 139, 163-171.	2.9	7
79	Syntheses of Chalconeâ€Type Chlorophyll Derivatives Possessing a Bacteriochlorin, Chlorin or Porphyrin Ï€â€System and Their Optical Properties. Photochemistry and Photobiology, 2019, 95, 755-761.	2.5	3
80	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
81	Trilayer Chlorophyll-Based Cascade Biosolar Cells. ACS Energy Letters, 2019, 4, 384-389.	17.4	32
82	Phototriggered Dynamic and Biomimetic Growth of Chlorosomal Self-Aggregates. Journal of the American Chemical Society, 2019, 141, 1207-1211.	13.7	27
83	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
84	Dielsâ€“Alder reactions of directly C3-dieneylated chlorophyll derivatives. Tetrahedron Letters, 2019, 60, 63-67.	1.4	4
85	Ultrafast excited state dynamics of nonfluorescent cyclopheophorbide-a enol, a catabolite of chlorophyll-a detoxified in algae-feeding aquatic microbes. Photochemical and Photobiological Sciences, 2019, 18, 64-70.	2.9	5
86	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
87	Synthesis of chlorophyll-a derivatives possessing the 3-(2-acylethenyl) group by cross-aldol condensation and their optical properties. Tetrahedron, 2018, 74, 2703-2715.	1.9	10
88	20-(N-Methylpyridiniumyl)ethynylated chlorophyll-a derivative with an intense Qx absorption band at a green to orange region. Tetrahedron Letters, 2018, 59, 978-981.	1.4	10
89	Cyclic Triad of Chlorophyll-a Derivative and Its Folded Conformer. Chemistry Letters, 2018, 47, 326-328.	1.3	2
90	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

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91	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
92	In vivo and in vitro preparation of divinyl-132,173-cyclopheophorbide-a enol. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1090-1092.	2.2	5
93	Rapid C8-vinyl reduction of divinyl-chlorophyllide a by BciA from Rhodobacter capsulatus. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 661-666.	3.9	2
94	Biosupramolecular bacteriochlorin aggregates as hole-transporters for perovskite solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 639-644.	3.9	18
95	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
96	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
97	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
98	The Primary Formation of a Cationic C10-Pyridinio-Chlorophyll-a Derivative by Chemical/Electrochemical Oxidation and the Physico-Chemical Properties of Regioisomeric meso-Adducts. Bulletin of the Chemical Society of Japan, 2018, 91, 1724-1730.	3.2	3
99	Synthesis of zinc 20-ethenylated bacteriochlorophyll-d analogs and their self-aggregation in an aqueous micelle solution. Tetrahedron, 2018, 74, 7030-7039.	1.9	10
100	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
101	Bilayer Chlorophyll-Based Biosolar Cells Inspired from the Z-Scheme Process of Oxygenic Photosynthesis. ACS Energy Letters, 2018, 3, 1708-1712.	17.4	46
102	Covalently linked dimer of chlorophyll-a derivative with an amide bond and its folded conformer. Tetrahedron Letters, 2018, 59, 3120-3123.	1.4	6
103	Synthesis of carboxylated chlorophyll derivatives and their activities in dye-sensitized solar cells. Tetrahedron, 2018, 74, 4078-4085.	1.9	23
104	Facile iodination of the vinyl groups in protoporphyrin IX dimethyl ester and subsequent transformation of the iodinated moieties. Tetrahedron, 2018, 74, 3707-3711.	1.9	4
105	Dyad Sensitizer of Chlorophyll with Indoline Dye for Panchromatic Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2018, 1, 2813-2820.	5.1	51
106	Coordinationâ€Driven Dimerization of Zinc Chlorophyll Derivatives Possessing a Dialkylamino Group. Chemistry - an Asian Journal, 2017, 12, 759-767.	3.3	19
107	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
108	Self-aggregation of synthetic chlorophyll-c derivative and effect of C17-acrylate residue on bridging green gap in chlorosomal model. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 340, 53-61.	3.9	7

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109	Synthesis of monovinyl- and divinyl-chlorophyll analogs and their physical properties. Tetrahedron, 2017, 73, 313-321.	1.9	7
110	Preparation of regio- and stereoisomeric di- and tetrahydrogeranylgeraniols and identification of esterifying groups in natural (bacterio)chlorophylls. Bioorganic and Medicinal Chemistry, 2017, 25, 6361-6370.	3.0	5
111	Synthesis of chlorophyll derivatives and dyads possessing a thiol or disulfide moiety and their optical properties. Tetrahedron, 2017, 73, 6914-6921.	1.9	4
112	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
113	Chlorophyllâ€Based Organicâ€“Inorganic Heterojunction Solar Cells. Chemistry - A European Journal, 2017, 23, 10886-10892.	3.3	17
114	Molecular Structures and Functions of Chlorophylls-a Esterified with Geranylgeranyl, Dihydrogeranylgeranyl, and Tetrahydrogeranylgeranyl Groups at the 17-Propionate Residue in a Diatom, Chaetoceros calcitrans. Biochemistry, 2017, 56, 3682-3688.	2.5	11
115	Stereoselective Selfâ€Aggregation of 3¹â€Epimerically Pure Amino Analogs of Zinc Bacteriochlorophyllâ€d in an Aqueous Micelle Solution. Photochemistry and Photobiology, 2016, 92, 276-285.	2.5	7
116	Enhancement of Light Absorption Ability of Synthetic Chlorophyll Derivatives by Conjugation with a Difluoroboron Diketonate Group. Chemistry - A European Journal, 2016, 22, 9996-10001.	3.3	7
117	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
118	Nanotubes of Biomimetic Supramolecules Constructed by Synthetic Metal Chlorophyll Derivatives. Nano Letters, 2016, 16, 3650-3654.	9.1	50
119	Dopantâ€Free Zinc Chlorophyll Aggregates as an Efficient Biocompatible Hole Transporter for Perovskite Solar Cells. ChemSusChem, 2016, 9, 2862-2869.	6.8	58
120	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
121	Rotational isomerization of 3-substituents in synthetic chlorophyll derivatives. Tetrahedron, 2016, 72, 6626-6633.	1.9	11
122	Excitonic and vibrational coherence in artificial photosynthetic systems studied by negative-time ultrafast laser spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 24252-24260.	2.8	6
123	Glycolipid analyses of light-harvesting chlorosomes from envelope protein mutants of Chlorobaculum tepidum. Photosynthesis Research, 2016, 128, 235-241.	2.9	11
124	Preparation of mono-vinylated and formylated chlorophyll derivatives and their optical properties. Tetrahedron, 2016, 72, 4368-4376.	1.9	14
125	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
126	In vitro self-assemblies of bacteriochlorophylls-c from Chlorobaculum tepidum and their supramolecular nanostructures. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 331, 190-196.	3.9	8

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127	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
128	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
129	Photophysical properties of synthetic monomer, dimer, trimer, and tetramer of chlorophyll derivatives and their application to organic solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 313, 19-26.	3.9	12
130	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
131	Synthesis and physical properties of carbonylated chlorophyll derivatives. Tetrahedron, 2015, 71, 1915-1923.	1.9	24
132	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
133	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
134	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
135	Synthesis of carboxylated chlorophylls and their application as functional materials. Journal of Porphyrins and Phthalocyanines, 2015, 19, 517-526.	0.8	25
136	Zinc chlorophyll aggregates as hole transporters for biocompatible, natural-photosynthesis-inspired solar cells. Journal of Power Sources, 2015, 297, 519-524.	7.8	34
137	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
138	Synthesis and optical properties of chlorin monomer, dimer and trimer on an amino nitrogen atom. Bioorganic and Medicinal Chemistry, 2015, 23, 5972-5978.	3.0	7
139	Synthesis of methyl (132R/S)-alkyl-pyropheophorbide a and a non-epimerized chlorophyll a mimic. Bioorganic and Medicinal Chemistry, 2015, 23, 6612-6621.	3.0	11
140	Selfâ€aggregation of Synthetic Zinc Chlorophyll Derivatives Possessing 3¹â€Hydroxy or Methoxy Group and 13¹â€Monoâ€or Dicyanomethylene Moiety in Nonpolar Organic Solvents as Models of Chlorosomal Bacteriochlorophyllâ€d Aggregates. Photochemistry and Photobiology, 2014, 90, 1277-1286.	2.5	9
141	Asymmetry of chlorophylls in photosynthetic proteins: from the viewpoint of coordination chemistry. Journal of Porphyrins and Phthalocyanines, 2014, 18, 919-932.	0.8	29
142	Synthesis of 20-iodochlorophyll derivatives and their properties including reactivity, electronic absorption, and self-aggregation. Tetrahedron, 2014, 70, 9768-9775.	1.9	14
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