Dewey Holten

List of Publications by Year
in descending order

144 papers	9,003 citations	36203 51 h-index	43802 91 g-index
147 all docs	147 docs citations	147 times ranked	5503 citing authors

#	Article	IF	Citations
1	Probing Electronic Communication in Covalently Linked Multiporphyrin Arrays. A Guide to the Rational Design of Molecular Photonic Devices. Accounts of Chemical Research, 2002, 35, 57-69.	7.6	834
2	Design, Synthesis, and Photodynamics of Light-Harvesting Arrays Comprised of a Porphyrin and One, Two, or Eight Boron-Dipyrrin Accessory Pigments. Journal of the American Chemical Society, 1998, 120, 10001-10017.	6.6	428
3	Primary photochemistry of reaction centers from the photosynthetic purple bacteria. Photosynthesis Research, 1987, 13, 225-260.	1.6	398
4	Structural Control of the Photodynamics of Boronâ˘'Dipyrrin Complexes. Journal of Physical Chemistry B, 2005, 109, 20433-20443.	1.2	375
5	Effects of Orbital Ordering on Electronic Communication in Multiporphyrin Arrays. Journal of the American Chemical Society, 1997, 119, 11191-11201.	6.6	224
6	Excited-State Energy-Transfer Dynamics in Self-Assembled Triads Composed of Two Porphyrins and an Intervening Bis(dipyrrinato)metal Complex. Inorganic Chemistry, 2003, 42, 6629-6647.	1.9	214
7	Structural Control of the Excited-State Dynamics of Bis(dipyrrinato)zinc Complexes:Â Self-Assembling Chromophores for Light-Harvesting Architectures. Journal of the American Chemical Society, 2004, 126, 2664-2665.	6.6	204
8	Photophysical Properties of Conformationally Distorted Metal-Free Porphyrins. Investigation into the Deactivation Mechanisms of the Lowest Excited Singlet State. Journal of the American Chemical Society, 1994, 116, 7363-7368.	6.6	200
9	Influence of an amino-acid residue on the optical properties and electron transfer dynamics of a photosynthetic reaction centre complex. Nature, 1988, 336, 182-184.	13.7	168
10	Variations and Temperature Dependence of the Excited State Properties of Conformationally and Electronically Perturbed Zinc and Free Base Porphyrins. Journal of Physical Chemistry B, 1997, 101, 1247-1254.	1.2	141
11	Structural Control of Photoinduced Energy Transfer between Adjacent and Distant Sites in Multiporphyrin Arrays. Journal of the American Chemical Society, 2000, 122, 7579-7591.	6.6	141
12	Picosecond-photodichroism studies of the transient states in Rhodopseudomonas sphaeroides reaction centers at 5 K. Effects of electron transfer on the six bacteriochlorin pigments. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 810, 49-61.	0.5	140
13	Synthesis and Photophysical Properties of Light-Harvesting Arrays Comprised of a Porphyrin Bearing Multiple Perylene-Monoimide Accessory Pigments. Journal of Organic Chemistry, 2002, 67, 6519-6534.	1.7	134
14	Ultrafast vibrational dynamics of a photoexcited metalloporphyrin. Journal of Chemical Physics, 1989, 91, 3525-3531.	1.2	132
15	Comparative Study of the Photophysical Properties of Nonplanar Tetraphenylporphyrin and Octaethylporphyrin Diacids. Journal of Physical Chemistry B, 2000, 104, 9909-9917.	1.2	125
16	A Tightly Coupled Linear Array of Perylene, Bis(Porphyrin), and Phthalocyanine Units that Functions as a Photoinduced Energy-Transfer Cascade. Journal of Organic Chemistry, 2000, 65, 6634-6649.	1.7	125
17	Accessing the near-infrared spectral region with stable, synthetic, wavelength-tunable bacteriochlorins. New Journal of Chemistry, 2008, 32, 947.	1.4	120
18	Ground and Excited State Electronic Properties of Halogenated Tetraarylporphyrins: Tuning the Building Blocks for Porphyrin-based Photonic Devices. Journal of Porphyrins and Phthalocyanines, 1999, 03, 117-147.	0.4	112

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19	Synthesis and Excited-State Photodynamics of Peryleneâˆ'Porphyrin Dyads. 1. Parallel Energy and Charge Transfer via a Diphenylethyne Linker. Journal of Physical Chemistry B, 2001, 105, 8237-8248.	1.2	110
20	Excited-State Energy Transfer and Ground-State Hole/Electron Hopping inp-Phenylene-Linked Porphyrin Dimers. Journal of Physical Chemistry B, 1998, 102, 9426-9436.	1.2	107
21	Effects of central metal ion (Mg, Zn) and solvent on singlet excited-state energy flow in porphyrin-based nanostructures. Journal of Materials Chemistry, 1997, 7, 1245-1262.	6.7	105
22	Investigation into the source of electron transfer asymmetry in bacterial reaction centers. Biochemistry, 1991, 30, 8315-8322.	1.2	104
23	Interplay of Orbital Tuning and Linker Location in Controlling Electronic Communication in Porphyrin Arrays. Journal of the American Chemical Society, 1999, 121, 4008-4018.	6.6	102
24	Timeâ€resolved and static optical properties of vibrationally excited porphyrins. Journal of Chemical Physics, 1991, 94, 6020-6029.	1.2	96
25	Unusual picosecond 1(Ï€, Ï€â^—) deactivation of ruffled nonplanar porphyrins. Chemical Physics Letters, 1995, 245, 441-447.	1.2	96
26	Photophysical Properties and Electronic Structure of Stable, Tunable Synthetic Bacteriochlorins: Extending the Features of Native Photosynthetic Pigments. Journal of Physical Chemistry B, 2011, 115, 10801-10816.	1.2	93
27	Photophysical characterization of imidazolium-substituted Pd(II), In(III), and Zn(II) porphyrins as photosensitizers for photodynamic therapy. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 200, 346-355.	2.0	91
28	Synthesis and properties of weakly coupled dendrimeric multiporphyrin light-harvesting arrays and hole-storage reservoirsElectronic supplementary information (ESI) available: a description of multiphoton effects at high excitation intensities; the complete Experimental section including descriptions of the syntheses of the arrays; SEC data, 1H NMR spectra, and mass spectra for all new porphyrins and multiporphyrin arrays; a description of exploratory studies in the purification of Zn20Fb; data from a compar. Journal of Materials Chemistry, 2002, 12, 65-80.	6.7	90
29	Comprehensive review of photophysical parameters (Iµ, Î¦f, Ï„s) of tetraphenylporphyrin (H2TPP) and zinc tetraphenylporphyrin (ZnTPP) â€" Critical benchmark molecules in photochemistry and photosynthesis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 46, 100401.	5.6	90
30	Synthesis and Physicochemical Properties of Metallobacteriochlorins. Inorganic Chemistry, 2012, 51, 9443-9464.	1.9	89
31	M-Side Electron Transfer in Reaction Center Mutants with a Lysine near the Nonphotoactive Bacteriochlorophyllâ€. Biochemistry, 1999, 38, 11516-11530.	1.2	88
32	Synthesis and excitedâ€state photodynamics of phenylethyneâ€linked porphyrinâ€"phthalocyanine dyads. Journal of Materials Chemistry, 2000, 10, 283-296.	6.7	87
33	Biohybrid Photosynthetic Antenna Complexes for Enhanced Light-Harvesting. Journal of the American Chemical Society, 2012, 134, 4589-4599.	6.6	87
34	Mechanisms of Excited-State Energy-Transfer Gating in Linear versus Branched Multiporphyrin Arrays. Journal of Physical Chemistry B, 2001, 105, 5341-5352.	1.2	85
35	Assembly of functional photosystem complexes in Rhodobacter sphaeroides incorporating carotenoids from the spirilloxanthin pathway. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 189-201.	0.5	84
36	Electronic states and optical properties of porphyrins in van der Waals contact: thorium(IV) sandwich complexes. Journal of the American Chemical Society, 1992, 114, 6528-6538.	6.6	81

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37	Photophysical Properties and Electronic Structure of Porphyrins Bearing Zero to Four <i>meso</i>-Phenyl Substituents: New Insights into Seemingly Well Understood Tetrapyrroles. Journal of Physical Chemistry A, 2016, 120, 9719-9731.	1.1	75
38	The Nature and Dynamics of the Charge-Separated Intermediate in Reaction Centers in which Bacteriochlorophyll Replaces the Photoactive Bacteriopheophytin. 2. The Rates and Yields of Charge Separation and Recombination. The Journal of Physical Chemistry, 1995, 99, 8910-8917.	2.9	73
39	Quinone Reduction via Secondary B-Branch Electron Transfer in Mutant Bacterial Reaction Centersâ€. Biochemistry, 2003, 42, 1718-1730.	1.2	71
40	Manipulating the Direction of Electron Transfer in the Bacterial Reaction Center by Swapping Phe for Tyr Near BChlM(L181) and Tyr for Phe Near BChlL(M208)â€. Biochemistry, 2001, 40, 12132-12139.	1.2	70
41	Primary photochemistry in the facultative green photosynthetic bacterium Chloroflexus aurantiacus. Journal of Cellular Biochemistry, 1983, 22, 251-261.	1.2	69
42	Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 1: Synthesis, Vibrational Properties and Excited-state Decay Characteristics. Photochemistry and Photobiology, 2007, 83, 1110-1124.	1.3	68
43	Synthesis and excited-state photodynamics of peryleneâ€“porphyrin dyads Part 3. Effects of perylene, linker, and connectivity on ultrafast energy transfer. Journal of Materials Chemistry, 2001, 11, 2420-2430.	6.7	63
44	Photophysical and Structural Properties of Saddle-Shaped Free Base Porphyrins:Â Evidence for an â€œOrthogonalâ€•Dipole Moment. Journal of Physical Chemistry B, 2001, 105, 7818-7829.	1.2	63
45	Effects of Asp Residues Near the L-Side Pigments in Bacterial Reaction Centersâ€. Biochemistry, 1996, 35, 15418-15427.	1.2	60
46	Ultrafast photodissociation of a metalloporphyrin in the condensed phase. Journal of Chemical Physics, 1990, 92, 5944-5950.	1.2	59
47	Synthesis and Characterization of Tetrachlorodiarylethyne-Linked Porphyrin Dimers. Effects of Linker Architecture on Intradimer Electronic Communication. Inorganic Chemistry, 1998, 37, 1191-1201.	1.9	59
48	Comparison of M-Side Electron Transfer in Rb. sphaeroides and Rb. capsulatus Reaction Centers. Journal of Physical Chemistry B, 2002, 106, 1799-1808.	1.2	58
49	Extending the Short and Long Wavelength Limits of Bacteriochlorin Near-Infrared Absorption via Dioxo- and Bisimide-Functionalization. Journal of Physical Chemistry B, 2015, 119, 4382-4395.	1.2	55
50	High Yield of M-Side Electron Transfer in Mutants ofRhodobacter capsulatusReaction Centers Lacking the L-Side Bacteriopheophytinâ€. Biochemistry, 2006, 45, 3845-3851.	1.2	54
51	Primary processes in the bacterial reaction center probed by two-dimensional electronic spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3563-3568.	3.3	53
52	The question of the intermediate state P+ Chl- in bacterial photosynthesis. FEBS Letters, 1985, 185, 76-82.	1.3	52
53	Stable synthetic mono-substituted cationic bacteriochlorins mediate selective broad-spectrum photoinactivation of drug-resistant pathogens at nanomolar concentrations. Journal of Photochemistry and Photobiology B: Biology, 2014, 141, 119-127.	1.7	50
54	Conformational and Electronic Effects of Phenyl-Ring Fluorination on the Photophysical Properties of Nonplanar Dodecaarylporphyrins. Journal of Physical Chemistry B, 2001, 105, 6396-6411.	1.2	49

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55	Palette of lipophilic bioconjugatable bacteriochlorins for construction of biohybrid light-harvesting architectures. Chemical Science, 2013, 4, 2036.	3.7	47
56	Picosecond measurements of the primary photochemical events in reaction centers isolated from the facultative green photosynthetic bacterium Chloroflexus aurantiacus. FEBS Letters, 1983, 158, 73-78.	1.3	46
57	Photoinduced Evolution on the Conformational Landscape of Nonplanar Dodecaphenylporphyrin:Â Picosecond Relaxation Dynamics in the1(Ï€,Ï€*) Excited State. Journal of Physical Chemistry B, 2000, 104, 6690-6693.	1.2	45
58	Subpicosecond characterization of the optical properties of the primary electron donor and the mechanism of the initial electron transfer in Rhodobacter capsulatus reaction centers. FEBS Letters, 1988, 239, 211-218.	1.3	43
59	Design and synthesis of light-harvesting rods for intrinsic rectification of the migration of excited-state energy and ground-state holesElectronic supplementary information (ESI) available: 1H and 13C NMR spectra for all new porphyrin precursors; 1H NMR and LD-MS spectra for all new porphyrins and porphyrin arrays (LD-MS only for deprotected arrays 12â€² and 14â€², and pentad 18); analytical SEC data for all porphyrin arrays. See http://www.rsc.org/suppdata/jm/b1/b108168c/. Journal of Materials Chemistry, 2002, 12, 1530-1552.	6.7	43
60	B-Side Charge Separation in Bacterial Photosynthetic Reaction Centers:Â Nanosecond Time Scale Electron Transfer from HB-to QBâ€. Biochemistry, 2003, 42, 2016-2024.	1.2	41
61	De novo synthesis and photophysical characterization of annulated bacteriochlorins. Mimicking and extending the properties of bacteriochlorophylls. New Journal of Chemistry, 2011, 35, 587.	1.4	40
62	Structural characteristics that make chlorophylls green: interplay of hydrocarbon skeleton and substituents. New Journal of Chemistry, 2011, 35, 76-88.	1.4	40
63	Augmenting light coverage for photosynthesis through YFP-enhanced charge separation at the Rhodobacter sphaeroides reaction centre. Nature Communications, 2017, 8, 13972.	5.8	40
64	Primary Events in Photosynthetic Reaction Centers with Multiple Mutations near the Photoactive Electron Carriers. Journal of Physical Chemistry B, 2001, 105, 5575-5584.	1.2	39
65	Swallowtail Porphyrins:â€‰ Synthesis, Characterization and Incorporation into Porphyrin Dyads. Journal of Organic Chemistry, 2004, 69, 3700-3710.	1.7	38
66	Panchromatic chromophoreâ€“tetrapyrrole light-harvesting arrays constructed from Bodipy, perylene, terrylene, porphyrin, chlorin, and bacteriochlorin building blocks. New Journal of Chemistry, 2016, 40, 8032-8052.	1.4	38
67	Structures of <i>Rhodopseudomonas palustris</i> RC-LH1 complexes with open or closed quinone channels. Science Advances, 2021, 7, .	4.7	38
68	Comparison of Excited-State Energy Transfer in Arrays of Hydroporphyrins (Chlorins, Oxochlorins) versus Porphyrins:Â Rates, Mechanisms, and Design Criteria. Journal of the American Chemical Society, 2003, 125, 13461-13470.	6.6	37
69	Photophysical Properties of Phenylethyne-Linked Porphyrin and Oxochlorin Dyads. Journal of Physical Chemistry B, 2004, 108, 8190-8200.	1.2	37
70	Integration of multiple chromophores with native photosynthetic antennas to enhance solar energy capture and delivery. Chemical Science, 2013, 4, 3924.	3.7	37
71	Insights into the factors controlling the rates of the deactivation processes that compete with charge separation in photosynthetic reaction centers. Chemical Physics, 1993, 176, 615-629.	0.9	36
72	Probing M-Branch Electron Transfer and Cofactor Environment in the Bacterial Photosynthetic Reaction Center by Addition of a Hydrogen Bond to the M-Side Bacteriopheophytin. Journal of Physical Chemistry B, 2002, 106, 495-503.	1.2	36

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73	Distinct Photophysical and Electronic Characteristics of Strongly Coupled Dyads Containing a Perylene Accessory Pigment and a Porphyrin, Chlorin, or Bacteriochlorin. Journal of Physical Chemistry B, 2013, 117, 9288-9304.	1.2	36
74	Engineering of B800 bacteriochlorophyll binding site specificity in the Rhodobacter sphaeroides LH2 antenna. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 209-223.	0.5	36
75	A compact water-soluble porphyrin bearing an iodoacetamido bioconjugatable site. Organic and Biomolecular Chemistry, 2008, 6, 187-194.	1.5	35
76	Self-Assembled Light-Harvesting System from Chromophores in Lipid Vesicles. Journal of Physical Chemistry B, 2015, 119, 10231-10243.	1.2	35
77	Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 3: The Distinctive Impact of Auxochromes at the 7â€•<i>versus</i> 3â€Positions. Photochemistry and Photobiology, 2012, 88, 651-674.	1.3	34
78	Panchromatic absorbers for solar light-harvesting. Chemical Communications, 2014, 50, 14512-14515.	2.2	34
79	Tailoring Panchromatic Absorption and Excited-State Dynamics of Tetrapyrroleâ€"Chromophore (Bodipy, Rylene) Arraysâ€"Interplay of Orbital Mixing and Configuration Interaction. Journal of the American Chemical Society, 2017, 139, 17547-17564.	6.6	34
80	Subpicosecond Spectroscopy of Charge Separation in <i>Rhodobacter capsulatus</i> Reaction Centers. Israel Journal of Chemistry, 1988, 28, 79-85.	1.0	33
81	Amphiphilic chlorins and bacteriochlorins in micellar environments. Molecular design, de novo synthesis, and photophysical properties. Chemical Science, 2013, 4, 3459.	3.7	32
82	Versatile design of biohybrid light-harvesting architectures to tune location, density, and spectral coverage of attached synthetic chromophores for enhanced energy capture. Photosynthesis Research, 2014, 121, 35-48.	1.6	32
83	Temperature Dependence of Electron Transfer to the M-Side Bacteriopheophytin in <i>Rhodobacter </i><i>capsulatus</i> Reaction Centers. Journal of Physical Chemistry B, 2008, 112, 5487-5499.	1.2	29
84	Bioconjugatable, PEGylated hydroporphyrins for photochemistry and photomedicine. Narrow-band, red-emitting chlorins. New Journal of Chemistry, 2016, 40, 7721-7740.	1.4	29
85	Effects of Strong Electronic Coupling in Chlorin and Bacteriochlorin Dyads. Journal of Physical Chemistry A, 2016, 120, 379-395.	1.1	28
86	Photophysical Properties and Electronic Structure of Zinc(II) Porphyrins Bearing 0â€"4 <i>meso</i>-Phenyl Substituents: Zinc Porphine to Zinc Tetraphenylporphyrin (ZnTPP). Journal of Physical Chemistry A, 2020, 124, 7776-7794.	1.1	28
87	Photophysical Properties and Electronic Structure of Chlorin-Imides: Bridging the Gap between Chlorins and Bacteriochlorins. Journal of Physical Chemistry B, 2015, 119, 7503-7515.	1.2	27
88	Synthetic bacteriochlorins bearing polar motifs (carboxylate, phosphonate, ammonium and a short) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2015, 39, 5694-5714.	1.4	25
89	Photophysics of Lanthanide Triple Decker Porphyrin Sandwich Complexes. The Journal of Physical Chemistry, 1996, 100, 860-868.	2.9	24
90	B-Side Electron Transfer To Form P+HB- in Reaction Centers from the F(L181)Y/Y(M208)F Mutant of Rhodobacter capsulatus. Journal of Physical Chemistry B, 2004, 108, 11827-11832.	1.2	24

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91	Photophysical Characterization of the Naturally Occurring Dioxobacteriochlorin Tolyporphin A and Synthetic Oxobacteriochlorin Analogues. Photochemistry and Photobiology, 2017, 93, 1204-1215.	1.3	24
92	Excited-State Photodynamics of Peryleneâ˘'Porphyrin Dyads. 5. Tuning Light-Harvesting Characteristics via Perylene Substituents, Connection Motif, and Three-Dimensional Architecture. Journal of Physical Chemistry B, 2010, 114, 14249-14264.	1.2	23
93	Photophysical comparisons of PEGylated porphyrins, chlorins and bacteriochlorins in water. New Journal of Chemistry, 2016, 40, 9648-9656.	1.4	23
94	Free-energy dependence of the rate of electron transfer to the primary quinone in beta-type reaction centers. Chemical Physics, 1995, 197, 225-237.	0.9	22
95	Detergent effects on primary charge separation in wild-type and mutant Rhodobacter capsulatus reaction centers. Chemical Physics, 2003, 294, 305-318.	0.9	22
96	Synthetic bacteriochlorins with integral spiro-piperidine motifs. New Journal of Chemistry, 2013, 37, 1157.	1.4	22
97	Probing Electronic Communication for Efficient Light-Harvesting Functionality: Dyads Containing a Common Perylene and a Porphyrin, Chlorin, or Bacteriochlorin. Journal of Physical Chemistry B, 2014, 118, 1630-1647.	1.2	22
98	Synthesis of arrays containing porphyrin, chlorin, and perylene-imide constituents for panchromatic light-harvesting and charge separation. RSC Advances, 2018, 8, 23854-23874.	1.7	22
99	Photophysical Properties and Electronic Structure of Bacteriochlorinâ€"Chalcones with Extended Nearâ€Infrared Absorption. Photochemistry and Photobiology, 2013, 89, 586-604.	1.3	21
100	New insights into the photochemistry of carotenoid spheroidenone in light-harvesting complex 2 from the purple bacterium Rhodobacter sphaeroides. Photosynthesis Research, 2017, 131, 291-304.	1.6	21
101	Investigation of the lowest electronic states of osmium(II) tetratolylporphyrins: photophysics of metalloporphyrin (d,.pi.*) charge transfer states. Journal of the American Chemical Society, 1994, 116, 281-289.	6.6	20
102	Determination of the Rate and Yield of B-side Quinone Reduction inRhodobacter capsulatusReaction Centersâ€. Biochemistry, 2006, 45, 7314-7322.	1.2	20
103	Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 4: How Formyl Group Location Dictates the Spectral Properties of Chlorophyllsb,dandf. Photochemistry and Photobiology, 2015, 91, 331-342.	1.3	20
104	Functional characteristics of spirilloxanthin and keto-bearing Analogues in light-harvesting LH2 complexes from Rhodobacter sphaeroides with a genetically modified carotenoid synthesis pathway. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 640-655.	0.5	20
105	Synthesis and photophysical characteristics of 2,3,12,13-tetraalkylbacteriochlorins. New Journal of Chemistry, 2016, 40, 5942-5956.	1.4	20
106	Origin of Panchromaticity in Multichromophoreâ€"Tetrapyrrole Arrays. Journal of Physical Chemistry A, 2018, 122, 7181-7201.	1.1	20
107	The fluorescence quantum yield parameter in FÃ¶rster resonance energy transfer (FRET)â€"Meaning, misperception, and molecular design. Chemical Physics Reviews, 2021, 2, 011302.	2.6	20
108	Hidden vibronic and excitonic structure and vibronic coherence transfer in the bacterial reaction center. Science Advances, 2022, 8, eabk0953.	4.7	20

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109	Electronic Interactions in the Bacterial Reaction Center Revealed by Two-Color 2D Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 5219-5225.	2.1	19
110	De novo synthesis and properties of analogues of the self-assembling chlorosomal bacteriochlorophylls. New Journal of Chemistry, 2011, 35, 2671.	1.4	17
111	Photochemistry of a Bacterial Photosynthetic Reaction Center Missing the Initial Bacteriochlorophyll Electron Acceptor. Journal of Physical Chemistry B, 2012, 116, 9971-9982.	1.2	17
112	Synthesis, photophysics and electronic structure of oxobacteriochlorins. New Journal of Chemistry, 2017, 41, 3732-3744.	1.4	16
113	Annulated bacteriochlorins for near-infrared photophysical studies. New Journal of Chemistry, 2019, 43, 7209-7232.	1.4	16
114	Bioconjugatable, PEGylated hydroporphyrins for photochemistry and photomedicine. Narrow-band, near-infrared-emitting bacteriochlorins. New Journal of Chemistry, 2016, 40, 7750-7767.	1.4	15
115	Manipulating the Energetics and Rates of Electron Transfer in <i>Rhodobacter capsulatus</i> Reaction Centers with Asymmetric Pigment Content. Journal of Physical Chemistry B, 2017, 121, 6989-7004.	1.2	15
116	A perspective on the redox properties of tetrapyrrole macrocycles. Physical Chemistry Chemical Physics, 2021, 23, 19130-19140.	1.3	15
117	Resonance Raman Characterization of Reaction Centers with an Asp Residue near the Photoactive Bacteriopheophytinâ€. Biochemistry, 1998, 37, 6394-6401.	1.2	14
118	Vibronic Characteristics and Spin-Density Distributions in Bacteriochlorins as Revealed by Spectroscopic Studies of 16 Isotopologues. Implications for Energy- and Electron-Transfer in Natural Photosynthesis and Artificial Solar-Energy Conversion. Journal of Physical Chemistry B, 2014, 118, 7520-7532.	1.2	14
119	Putative Hydrogen Bond to Tyrosine M208 in Photosynthetic Reaction Centers from <i>Rhodobacter capsulatus</i> Significantly Slows Primary Charge Separation. Journal of Physical Chemistry B, 2014, 118, 6721-6732.	1.2	13
120	Tuning the Electronic Structure and Properties of Peryleneâ€“Porphyrinâ€“Perylene Panchromatic Absorbers. Journal of Physical Chemistry A, 2016, 120, 7434-7450.	1.1	12
121	Beyond green with synthetic chlorophylls â€“ Connecting structural features with spectral properties. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 52, 100513.	5.6	12
122	High Throughput Engineering to Revitalize a Vestigial Electron Transfer Pathway in Bacterial Photosynthetic Reaction Centers. Journal of Biological Chemistry, 2012, 287, 8507-8514.	1.6	11
123	Enhanced Lightâ€Harvesting Capacity by Micellar Assembly of Free Accessory Chromophores and LH1â€like Antennas. Photochemistry and Photobiology, 2014, 90, 1264-1276.	1.3	11
124	Amphiphilic, hydrophilic, or hydrophobic synthetic bacteriochlorins in biohybrid light-harvesting architectures: consideration of molecular designs. Photosynthesis Research, 2014, 122, 187-202.	1.6	11
125	Switching sidesâ€"Reengineered primary charge separation in the bacterial photosynthetic reaction center. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 865-871.	3.3	11
126	High yield of secondary B-side electron transfer in mutant Rhodobacter capsulatus reaction centers. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1892-1903.	0.5	10

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127	Synthesis and photophysical characterization of bacteriochlorins equipped with integral swallowtail substituents. New Journal of Chemistry, 2017, 41, 4360-4376.	1.4	10
128	Chlorophyll-Inspired Red-Region Fluorophores: Building Block Synthesis and Studies in Aqueous Media. Molecules, 2018, 23, 130.	1.7	10
129	Species differences in unlocking Bâ€side electron transfer in bacterial reaction centers. FEBS Letters, 2016, 590, 2515-2526.	1.3	8
130	Optimizing multi-step B-side charge separation in photosynthetic reaction centers from Rhodobacter capsulatus. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 150-159.	0.5	8
131	Interdisciplinary, Application-Oriented Tutorials: Design, Implementation, and Evaluation. Journal of Chemical Education, 2005, 82, 1871.	1.1	7
132	Integration of Cyanine, Merocyanine and Styryl Dye Motifs with Synthetic Bacteriochlorins. Photochemistry and Photobiology, 2016, 92, 111-125.	1.3	7
133	New molecular design for blue BODIPYs. New Journal of Chemistry, 2019, 43, 7233-7242.	1.4	7
134	Electronic Structure and Excited-State Dynamics of Ryleneâ€"Tetrapyrrole Panchromatic Absorbers. Journal of Physical Chemistry A, 2021, 125, 7900-7919.	1.1	7
135	Photosynthetic reaction center variants made via genetic code expansion show Tyr at M210 tunes the initial electron transfer mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	6
136	Relationship between altered structure and photochemistry in mutant reaction centers in which bacteriochlorophyll replaces the photoactive bacteriopheophytin. , 1999, 5, 346-357.		5
137	Consequences of saturation mutagenesis of the protein ligand to the B-side monomeric bacteriochlorophyll in reaction centers from Rhodobacter capsulatus. Photosynthesis Research, 2019, 141, 273-290.	1.6	5
138	Characterization of Hydroporphyrins Covalently Attached to Si(100). Journal of Porphyrins and Phthalocyanines, 2017, 21, 453-464.	0.4	4
139	Conjugated-linker dependence of the photophysical properties and electronic structure of chlorin dyads. Journal of Porphyrins and Phthalocyanines, 2021, 25, 639-663.	0.4	4
140	Blood-Chemistry Tutorials: Teaching Biological Applications of General Chemistry Material. Journal of Chemical Education, 2001, 78, 1210.	1.1	2
141	Expanding Covalent Attachment Sites of Nonnative Chromophores to Encompass the Câ€Terminal Hydrophilic Domain in Biohybrid Lightâ€Harvesting Architectures. ChemPhotoChem, 2018, 2, 300-313.	1.5	2
142	Picosecond Measurements of Electron Transfer in Bacterial Photosynthetic Reaction Centers. ACS Symposium Series, 1986, , 205-218.	0.5	1
143	Repurposing a photosynthetic antenna protein as a super-resolution microscopy label. Scientific Reports, 2017, 7, 16807.	1.6	1
144	In Situ, Protein-Mediated Generation of a Photochemically Active Chlorophyll Analogue in a Mutant Bacterial Photosynthetic Reaction Center. Biochemistry, 2021, 60, 1260-1275.	1.2	1