

Dewey Holten

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Probing Electronic Communication in Covalently Linked Multiporphyrin Arrays. A Guide to the Rational Design of Molecular Photonic Devices. <i>Accounts of Chemical Research</i> , 2002, 35, 57-69.	15.6	834
2	Design, Synthesis, and Photodynamics of Light-Harvesting Arrays Comprised of a Porphyrin and One, Two, or Eight Boron-Dipyrin Accessory Pigments. <i>Journal of the American Chemical Society</i> , 1998, 120, 10001-10017.	13.7	428
3	Primary photochemistry of reaction centers from the photosynthetic purple bacteria. <i>Photosynthesis Research</i> , 1987, 13, 225-260.	2.9	398
4	Structural Control of the Photodynamics of Boron-Dipyrin Complexes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20433-20443.	2.6	375
5	Effects of Orbital Ordering on Electronic Communication in Multiporphyrin Arrays. <i>Journal of the American Chemical Society</i> , 1997, 119, 11191-11201.	13.7	224
6	Excited-State Energy-Transfer Dynamics in Self-Assembled Triads Composed of Two Porphyrins and an Intervening Bis(dipyrinato)metal Complex. <i>Inorganic Chemistry</i> , 2003, 42, 6629-6647.	4.0	214
7	Structural Control of the Excited-State Dynamics of Bis(dipyrinato)zinc Complexes: Self-Assembling Chromophores for Light-Harvesting Architectures. <i>Journal of the American Chemical Society</i> , 2004, 126, 2664-2665.	13.7	204
8	Photophysical Properties of Conformationally Distorted Metal-Free Porphyrins. Investigation into the Deactivation Mechanisms of the Lowest Excited Singlet State. <i>Journal of the American Chemical Society</i> , 1994, 116, 7363-7368.	13.7	200
9	Influence of an amino-acid residue on the optical properties and electron transfer dynamics of a photosynthetic reaction centre complex. <i>Nature</i> , 1988, 336, 182-184.	27.8	168
10	Variations and Temperature Dependence of the Excited State Properties of Conformationally and Electronically Perturbed Zinc and Free Base Porphyrins. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1247-1254.	2.6	141
11	Structural Control of Photoinduced Energy Transfer between Adjacent and Distant Sites in Multiporphyrin Arrays. <i>Journal of the American Chemical Society</i> , 2000, 122, 7579-7591.	13.7	141
12	Picosecond-photodichroism studies of the transient states in <i>Rhodospseudomonas sphaeroides</i> reaction centers at 5 K. Effects of electron transfer on the six bacteriochlorin pigments. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1985, 810, 49-61.	1.0	140
13	Synthesis and Photophysical Properties of Light-Harvesting Arrays Comprised of a Porphyrin Bearing Multiple Perylene-Monoimide Accessory Pigments. <i>Journal of Organic Chemistry</i> , 2002, 67, 6519-6534.	3.2	134
14	Ultrafast vibrational dynamics of a photoexcited metalloporphyrin. <i>Journal of Chemical Physics</i> , 1989, 91, 3525-3531.	3.0	132
15	Comparative Study of the Photophysical Properties of Nonplanar Tetraphenylporphyrin and Octaethylporphyrin Diacids. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9909-9917.	2.6	125
16	A Tightly Coupled Linear Array of Perylene, Bis(Porphyrin), and Phthalocyanine Units that Functions as a Photoinduced Energy-Transfer Cascade. <i>Journal of Organic Chemistry</i> , 2000, 65, 6634-6649.	3.2	125
17	Accessing the near-infrared spectral region with stable, synthetic, wavelength-tunable bacteriochlorins. <i>New Journal of Chemistry</i> , 2008, 32, 947.	2.8	120
18	Ground and Excited State Electronic Properties of Halogenated Tetraarylporphyrins: Tuning the Building Blocks for Porphyrin-based Photonic Devices. <i>Journal of Porphyrins and Phthalocyanines</i> , 1999, 03, 117-147.	0.8	112

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19	Synthesis and Excited-State Photodynamics of Perylene-Porphyrin Dyads. 1. Parallel Energy and Charge Transfer via a Diphenylethyne Linker. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8237-8248.	2.6	110
20	Excited-State Energy Transfer and Ground-State Hole/Electron Hopping in p-Phenylene-Linked Porphyrin Dimers. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9426-9436.	2.6	107
21	Effects of central metal ion (Mg, Zn) and solvent on singlet excited-state energy flow in porphyrin-based nanostructures. <i>Journal of Materials Chemistry</i> , 1997, 7, 1245-1262.	6.7	105
22	Investigation into the source of electron transfer asymmetry in bacterial reaction centers. <i>Biochemistry</i> , 1991, 30, 8315-8322.	2.5	104
23	Interplay of Orbital Tuning and Linker Location in Controlling Electronic Communication in Porphyrin Arrays. <i>Journal of the American Chemical Society</i> , 1999, 121, 4008-4018.	13.7	102
24	Time-resolved and static optical properties of vibrationally excited porphyrins. <i>Journal of Chemical Physics</i> , 1991, 94, 6020-6029.	3.0	96
25	Unusual picosecond ($\text{f} \rightarrow \text{g}$) deactivation of ruffled nonplanar porphyrins. <i>Chemical Physics Letters</i> , 1995, 245, 441-447.	2.6	96
26	Photophysical Properties and Electronic Structure of Stable, Tunable Synthetic Bacteriochlorins: Extending the Features of Native Photosynthetic Pigments. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10801-10816.	2.6	93
27	Photophysical characterization of imidazolium-substituted Pd(II), In(III), and Zn(II) porphyrins as photosensitizers for photodynamic therapy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 346-355.	3.9	91
28	Synthesis and properties of weakly coupled dendrimeric multiporphyrin light-harvesting arrays and hole-storage reservoirs. Electronic 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 ZnTPP; data from a compar. <i>Journal of Materials Chemistry</i> , 2002, 12, 65-80.	6.7	90
29	Comprehensive review of photophysical parameters (k_f , k_r , k_{et} , k_{ic}) of tetraphenylporphyrin (H2TPP) and zinc tetraphenylporphyrin (ZnTPP) – Critical benchmark molecules in photochemistry and photosynthesis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2021, 46, 100401.	11.6	90
30	Synthesis and Physicochemical Properties of Metallobacteriochlorins. <i>Inorganic Chemistry</i> , 2012, 51, 9443-9464.	4.0	89
31	M-Side Electron Transfer in Reaction Center Mutants with a Lysine near the Nonphotoactive Bacteriochlorophyll a^- . <i>Biochemistry</i> , 1999, 38, 11516-11530.	2.5	88
32	Synthesis and excited-state photodynamics of phenylethyne-linked porphyrin-phthalocyanine dyads. <i>Journal of Materials Chemistry</i> , 2000, 10, 283-296.	6.7	87
33	Biohybrid Photosynthetic Antenna Complexes for Enhanced Light-Harvesting. <i>Journal of the American Chemical Society</i> , 2012, 134, 4589-4599.	13.7	87
34	Mechanisms of Excited-State Energy-Transfer Gating in Linear versus Branched Multiporphyrin Arrays. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5341-5352.	2.6	85
35	Assembly of functional photosystem complexes in <i>Rhodobacter sphaeroides</i> incorporating carotenoids from the spirilloxanthin pathway. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 189-201.	1.0	84
36	Electronic states and optical properties of porphyrins in van der Waals contact: thorium(IV) sandwich complexes. <i>Journal of the American Chemical Society</i> , 1992, 114, 6528-6538.	13.7	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. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9719-9731.	2.5	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. <i>The Journal of Physical Chemistry</i> , 1995, 99, 8910-8917.	2.9	73
39	Quinone Reduction via Secondary B-Branch Electron Transfer in Mutant Bacterial Reaction Centers. <i>Biochemistry</i> , 2003, 42, 1718-1730.	2.5	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). <i>Biochemistry</i> , 2001, 40, 12132-12139.	2.5	70
41	Primary photochemistry in the facultative green photosynthetic bacterium <i>Chloroflexus aurantiacus</i> . <i>Journal of Cellular Biochemistry</i> , 1983, 22, 251-261.	2.6	69
42	Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 1: Synthesis, Vibrational Properties and Excited-state Decay Characteristics. <i>Photochemistry and Photobiology</i> , 2007, 83, 1110-1124.	2.5	68
43	Synthesis and excited-state photodynamics of perylene-porphyrin dyads Part 3. Effects of perylene, linker, and connectivity on ultrafast energy transfer. <i>Journal of Materials Chemistry</i> , 2001, 11, 2420-2430.	6.7	63
44	Photophysical and Structural Properties of Saddle-Shaped Free Base Porphyrins: Evidence for an "Orthogonal" Dipole Moment. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7818-7829.	2.6	63
45	Effects of Asp Residues Near the L-Side Pigments in Bacterial Reaction Centers. <i>Biochemistry</i> , 1996, 35, 15418-15427.	2.5	60
46	Ultrafast photodissociation of a metalloporphyrin in the condensed phase. <i>Journal of Chemical Physics</i> , 1990, 92, 5944-5950.	3.0	59
47	Synthesis and Characterization of Tetrachlorodiarylethyne-Linked Porphyrin Dimers. Effects of Linker Architecture on Intradimer Electronic Communication. <i>Inorganic Chemistry</i> , 1998, 37, 1191-1201.	4.0	59
48	Comparison of M-Side Electron Transfer in <i>Rb. sphaeroides</i> and <i>Rb. capsulatus</i> Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1799-1808.	2.6	58
49	Extending the Short and Long Wavelength Limits of Bacteriochlorin Near-Infrared Absorption via Dioxo- and Bisimide-Functionalization. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4382-4395.	2.6	55
50	High Yield of M-Side Electron Transfer in Mutants of <i>Rhodobacter capsulatus</i> Reaction Centers Lacking the L-Side Bacteriopheophytin. <i>Biochemistry</i> , 2006, 45, 3845-3851.	2.5	54
51	Primary processes in the bacterial reaction center probed by two-dimensional electronic spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3563-3568.	7.1	53
52	The question of the intermediate state P ⁺ Chl- in bacterial photosynthesis. <i>FEBS Letters</i> , 1985, 185, 76-82.	2.8	52
53	Stable synthetic mono-substituted cationic bacteriochlorins mediate selective broad-spectrum photoinactivation of drug-resistant pathogens at nanomolar concentrations. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 141, 119-127.	3.8	50
54	Conformational and Electronic Effects of Phenyl-Ring Fluorination on the Photophysical Properties of Nonplanar Dodecaarylporphyrins. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6396-6411.	2.6	49

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55	Palette of lipophilic bioconjugatable bacteriochlorins for construction of biohybrid light-harvesting architectures. <i>Chemical Science</i> , 2013, 4, 2036.	7.4	47
56	Picosecond measurements of the primary photochemical events in reaction centers isolated from the facultative green photosynthetic bacterium <i>Chloroflexus aurantiacus</i> . <i>FEBS Letters</i> , 1983, 158, 73-78.	2.8	46
57	Photoinduced Evolution on the Conformational Landscape of Nonplanar Dodecaphenylporphyrin: A Picosecond Relaxation Dynamics in the $1(\text{f}, \text{f}^*)$ Excited State. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6690-6693.	2.6	45
58	Subpicosecond characterization of the optical properties of the primary electron donor and the mechanism of the initial electron transfer in <i>Rhodobacter capsulatus</i> reaction centers. <i>FEBS Letters</i> , 1988, 239, 211-218.	2.8	43
59	De novo synthesis of light-harvesting rods for intrinsic rectification of the migration of excited-state energy and ground-state holes Electronic supplementary information (ESI) available: ^1H and ^{13}C 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 12H^2 and 14H^2 , and pentad 18); analytical SEC data for all porphyrin arrays. See http://www.rsc.org/suppdata/jm/b1/b108168c/ . <i>Journal of Materials Chemistry</i> , 2002, 12, 1530-1552.	6.7	43
60	B-Side Charge Separation in Bacterial Photosynthetic Reaction Centers: A Nanosecond Time Scale Electron Transfer from HB to QB. <i>Biochemistry</i> , 2003, 42, 2016-2024.	2.5	41
61	De novo synthesis and photophysical characterization of annulated bacteriochlorins. Mimicking and extending the properties of bacteriochlorophylls. <i>New Journal of Chemistry</i> , 2011, 35, 587.	2.8	40
62	Structural characteristics that make chlorophylls green: interplay of hydrocarbon skeleton and substituents. <i>New Journal of Chemistry</i> , 2011, 35, 76-88.	2.8	40
63	Augmenting light coverage for photosynthesis through YFP-enhanced charge separation at the <i>Rhodobacter sphaeroides</i> reaction centre. <i>Nature Communications</i> , 2017, 8, 13972.	12.8	40
64	Primary Events in Photosynthetic Reaction Centers with Multiple Mutations near the Photoactive Electron Carriers. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5575-5584.	2.6	39
65	Swallowtail Porphyrins: A Synthesis, Characterization and Incorporation into Porphyrin Dyads. <i>Journal of Organic Chemistry</i> , 2004, 69, 3700-3710.	3.2	38
66	Panchromatic chromophore "tetrapyrrole light-harvesting arrays constructed from Bodipy, perylene, terrylene, porphyrin, chlorin, and bacteriochlorin building blocks. <i>New Journal of Chemistry</i> , 2016, 40, 8032-8052.	2.8	38
67	Structures of <i>Rhodopseudomonas palustris</i> RC-LH1 complexes with open or closed quinone channels. <i>Science Advances</i> , 2021, 7, .	10.3	38
68	Comparison of Excited-State Energy Transfer in Arrays of Hydroporphyrins (Chlorins, Oxochlorins) versus Porphyrins: A Rates, Mechanisms, and Design Criteria. <i>Journal of the American Chemical Society</i> , 2003, 125, 13461-13470.	13.7	37
69	Photophysical Properties of Phenylethyne-Linked Porphyrin and Oxochlorin Dyads. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8190-8200.	2.6	37
70	Integration of multiple chromophores with native photosynthetic antennas to enhance solar energy capture and delivery. <i>Chemical Science</i> , 2013, 4, 3924.	7.4	37
71	Insights into the factors controlling the rates of the deactivation processes that compete with charge separation in photosynthetic reaction centers. <i>Chemical Physics</i> , 1993, 176, 615-629.	1.9	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. <i>Journal of Physical Chemistry B</i> , 2002, 106, 495-503.	2.6	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. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9288-9304.	2.6	36
74	Engineering of B800 bacteriochlorophyll binding site specificity in the <i>Rhodobacter sphaeroides</i> LH2 antenna. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 209-223.	1.0	36
75	A compact water-soluble porphyrin bearing an iodoacetamido bioconjugatable site. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 187-194.	2.8	35
76	Self-Assembled Light-Harvesting System from Chromophores in Lipid Vesicles. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10231-10243.	2.6	35
77	Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 3: The Distinctive Impact of Auxochromes at the 3-Positions. <i>Photochemistry and Photobiology</i> , 2012, 88, 651-674.	2.5	34
78	Panchromatic absorbers for solar light-harvesting. <i>Chemical Communications</i> , 2014, 50, 14512-14515.	4.1	34
79	Tailoring Panchromatic Absorption and Excited-State Dynamics of Tetrapyrrole-Chromophore (Bodipy, Rylene) Arrays: Interplay of Orbital Mixing and Configuration Interaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 17547-17564.	13.7	34
80	Subpicosecond Spectroscopy of Charge Separation in <i>Rhodobacter capsulatus</i> Reaction Centers. <i>Israel Journal of Chemistry</i> , 1988, 28, 79-85.	2.3	33
81	Amphiphilic chlorins and bacteriochlorins in micellar environments. Molecular design, de novo synthesis, and photophysical properties. <i>Chemical Science</i> , 2013, 4, 3459.	7.4	32
82	Versatile design of biohybrid light-harvesting architectures to tune location, density, and spectral coverage of attached synthetic chromophores for enhanced energy capture. <i>Photosynthesis Research</i> , 2014, 121, 35-48.	2.9	32
83	Temperature Dependence of Electron Transfer to the M-Side Bacteriopheophytin in <i>Rhodobacter capsulatus</i> Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5487-5499.	2.6	29
84	Bioconjugatable, PEGylated hydroporphyrins for photochemistry and photomedicine. Narrow-band, red-emitting chlorins. <i>New Journal of Chemistry</i> , 2016, 40, 7721-7740.	2.8	29
85	Effects of Strong Electronic Coupling in Chlorin and Bacteriochlorin Dyads. <i>Journal of Physical Chemistry A</i> , 2016, 120, 379-395.	2.5	28
86	Photophysical Properties and Electronic Structure of Zinc(II) Porphyrins Bearing 4-meso-Phenyl Substituents: Zinc Porphine to Zinc Tetraphenylporphyrin (ZnTPP). <i>Journal of Physical Chemistry A</i> , 2020, 124, 7776-7794.	2.5	28
87	Photophysical Properties and Electronic Structure of Chlorin-Imides: Bridging the Gap between Chlorins and Bacteriochlorins. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7503-7515.	2.6	27
88	Synthetic bacteriochlorins bearing polar motifs (carboxylate, phosphonate, ammonium and a short) <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 5</i> 2015, 39, 5694-5714.	2.8	25
89	Photophysics of Lanthanide Triple Decker Porphyrin Sandwich Complexes. <i>The Journal of Physical Chemistry</i> , 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 <i>Rhodobacter capsulatus</i> . <i>Journal of Physical Chemistry B</i> , 2004, 108, 11827-11832.	2.6	24

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91	Photophysical Characterization of the Naturally Occurring Dioxobacteriochlorin Tolyporphin A and Synthetic Oxobacteriochlorin Analogues. <i>Photochemistry and Photobiology</i> , 2017, 93, 1204-1215.	2.5	24
92	Excited-State Photodynamics of Perylene-Porphyrin Dyads. 5. Tuning Light-Harvesting Characteristics via Perylene Substituents, Connection Motif, and Three-Dimensional Architecture. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14249-14264.	2.6	23
93	Photophysical comparisons of PEGylated porphyrins, chlorins and bacteriochlorins in water. <i>New Journal of Chemistry</i> , 2016, 40, 9648-9656.	2.8	23
94	Free-energy dependence of the rate of electron transfer to the primary quinone in beta-type reaction centers. <i>Chemical Physics</i> , 1995, 197, 225-237.	1.9	22
95	Detergent effects on primary charge separation in wild-type and mutant <i>Rhodobacter capsulatus</i> reaction centers. <i>Chemical Physics</i> , 2003, 294, 305-318.	1.9	22
96	Synthetic bacteriochlorins with integral spiro-piperidine motifs. <i>New Journal of Chemistry</i> , 2013, 37, 1157.	2.8	22
97	Probing Electronic Communication for Efficient Light-Harvesting Functionality: Dyads Containing a Common Perylene and a Porphyrin, Chlorin, or Bacteriochlorin. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1630-1647.	2.6	22
98	Synthesis of arrays containing porphyrin, chlorin, and perylene-imide constituents for panchromatic light-harvesting and charge separation. <i>RSC Advances</i> , 2018, 8, 23854-23874.	3.6	22
99	Photophysical Properties and Electronic Structure of Bacteriochlorin-Chalcones with Extended Near-Infrared Absorption. <i>Photochemistry and Photobiology</i> , 2013, 89, 586-604.	2.5	21
100	New insights into the photochemistry of carotenoid spheroidenone in light-harvesting complex 2 from the purple bacterium <i>Rhodobacter sphaeroides</i> . <i>Photosynthesis Research</i> , 2017, 131, 291-304.	2.9	21
101	Investigation of the lowest electronic states of osmium(II) tetratolylporphyrins: photophysics of metalloporphyrin (d,pi.*) charge transfer states. <i>Journal of the American Chemical Society</i> , 1994, 116, 281-289.	13.7	20
102	Determination of the Rate and Yield of B-side Quinone Reduction in <i>Rhodobacter capsulatus</i> Reaction Centers. <i>Biochemistry</i> , 2006, 45, 7314-7322.	2.5	20
103	Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 4: How Formyl Group Location Dictates the Spectral Properties of Chlorophylls. <i>Photochemistry and Photobiology</i> , 2015, 91, 331-342.	2.5	20
104	Functional characteristics of spirilloxanthin and keto-bearing Analogues in light-harvesting LH2 complexes from <i>Rhodobacter sphaeroides</i> with a genetically modified carotenoid synthesis pathway. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 640-655.	1.0	20
105	Synthesis and photophysical characteristics of 2,3,12,13-tetraalkylbacteriochlorins. <i>New Journal of Chemistry</i> , 2016, 40, 5942-5956.	2.8	20
106	Origin of Panchromaticity in Multichromophore-Tetrapyrrole Arrays. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7181-7201.	2.5	20
107	The fluorescence quantum yield parameter in Förster resonance energy transfer (FRET) Meaning, misperception, and molecular design. <i>Chemical Physics Reviews</i> , 2021, 2, 011302.	5.7	20
108	Hidden vibronic and excitonic structure and vibronic coherence transfer in the bacterial reaction center. <i>Science Advances</i> , 2022, 8, eabk0953.	10.3	20

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109	Electronic Interactions in the Bacterial Reaction Center Revealed by Two-Color 2D Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5219-5225.	4.6	19
110	De novo synthesis and properties of analogues of the self-assembling chlorosomal bacteriochlorophylls. <i>New Journal of Chemistry</i> , 2011, 35, 2671.	2.8	17
111	Photochemistry of a Bacterial Photosynthetic Reaction Center Missing the Initial Bacteriochlorophyll Electron Acceptor. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9971-9982.	2.6	17
112	Synthesis, photophysics and electronic structure of oxobacteriochlorins. <i>New Journal of Chemistry</i> , 2017, 41, 3732-3744.	2.8	16
113	Annulated bacteriochlorins for near-infrared photophysical studies. <i>New Journal of Chemistry</i> , 2019, 43, 7209-7232.	2.8	16
114	Bioconjugatable, PEGylated hydroporphyrins for photochemistry and photomedicine. Narrow-band, near-infrared-emitting bacteriochlorins. <i>New Journal of Chemistry</i> , 2016, 40, 7750-7767.	2.8	15
115	Manipulating the Energetics and Rates of Electron Transfer in <i>Rhodobacter capsulatus</i> Reaction Centers with Asymmetric Pigment Content. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6989-7004.	2.6	15
116	A perspective on the redox properties of tetrapyrrole macrocycles. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19130-19140.	2.8	15
117	Resonance Raman Characterization of Reaction Centers with an Asp Residue near the Photoactive Bacteriopheophytin. <i>Biochemistry</i> , 1998, 37, 6394-6401.	2.5	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. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7520-7532.	2.6	14
119	Putative Hydrogen Bond to Tyrosine M208 in Photosynthetic Reaction Centers from <i>Rhodobacter capsulatus</i> Significantly Slows Primary Charge Separation. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6721-6732.	2.6	13
120	Tuning the Electronic Structure and Properties of Perylene-Porphyrin-Perylene Panchromatic Absorbers. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7434-7450.	2.5	12
121	Beyond green with synthetic chlorophylls – Connecting structural features with spectral properties. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 52, 100513.	11.6	12
122	High Throughput Engineering to Revitalize a Vestigial Electron Transfer Pathway in Bacterial Photosynthetic Reaction Centers. <i>Journal of Biological Chemistry</i> , 2012, 287, 8507-8514.	3.4	11
123	Enhanced Light-Harvesting Capacity by Micellar Assembly of Free Accessory Chromophores and LH1-like Antennas. <i>Photochemistry and Photobiology</i> , 2014, 90, 1264-1276.	2.5	11
124	Amphiphilic, hydrophilic, or hydrophobic synthetic bacteriochlorins in biohybrid light-harvesting architectures: consideration of molecular designs. <i>Photosynthesis Research</i> , 2014, 122, 187-202.	2.9	11
125	Switching sides – Reengineered primary charge separation in the bacterial photosynthetic reaction center. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 865-871.	7.1	11
126	High yield of secondary B-side electron transfer in mutant <i>Rhodobacter capsulatus</i> reaction centers. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1892-1903.	1.0	10

#	ARTICLE	IF	CITATIONS
127	Synthesis and photophysical characterization of bacteriochlorins equipped with integral swallowtail substituents. <i>New Journal of Chemistry</i> , 2017, 41, 4360-4376.	2.8	10
128	Chlorophyll-Inspired Red-Region Fluorophores: Building Block Synthesis and Studies in Aqueous Media. <i>Molecules</i> , 2018, 23, 130.	3.8	10
129	Species differences in unlocking B-side electron transfer in bacterial reaction centers. <i>FEBS Letters</i> , 2016, 590, 2515-2526.	2.8	8
130	Optimizing multi-step B-side charge separation in photosynthetic reaction centers from <i>Rhodobacter capsulatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 150-159.	1.0	8
131	Interdisciplinary, Application-Oriented Tutorials: Design, Implementation, and Evaluation. <i>Journal of Chemical Education</i> , 2005, 82, 1871.	2.3	7
132	Integration of Cyanine, Merocyanine and Styryl Dye Motifs with Synthetic Bacteriochlorins. <i>Photochemistry and Photobiology</i> , 2016, 92, 111-125.	2.5	7
133	New molecular design for blue BODIPYs. <i>New Journal of Chemistry</i> , 2019, 43, 7233-7242.	2.8	7
134	Electronic Structure and Excited-State Dynamics of Rylene-“Tetrapyrrole Panchromatic Absorbers. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7900-7919.	2.5	7
135	Photosynthetic reaction center variants made via genetic code expansion show Tyr at M210 tunes the initial electron transfer mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	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 <i>Rhodobacter capsulatus</i> . <i>Photosynthesis Research</i> , 2019, 141, 273-290.	2.9	5
138	Characterization of Hydroporphyrins Covalently Attached to Si(100). <i>Journal of Porphyrins and Phthalocyanines</i> , 2017, 21, 453-464.	0.8	4
139	Conjugated-linker dependence of the photophysical properties and electronic structure of chlorin dyads. <i>Journal of Porphyrins and Phthalocyanines</i> , 2021, 25, 639-663.	0.8	4
140	Blood-Chemistry Tutorials: Teaching Biological Applications of General Chemistry Material. <i>Journal of Chemical Education</i> , 2001, 78, 1210.	2.3	2
141	Expanding Covalent Attachment Sites of Nonnative Chromophores to Encompass the C-terminal Hydrophilic Domain in Biohybrid Light-Harvesting Architectures. <i>ChemPhotoChem</i> , 2018, 2, 300-313.	3.0	2
142	Picosecond Measurements of Electron Transfer in Bacterial Photosynthetic Reaction Centers. <i>ACS Symposium Series</i> , 1986, , 205-218.	0.5	1
143	Repurposing a photosynthetic antenna protein as a super-resolution microscopy label. <i>Scientific Reports</i> , 2017, 7, 16807.	3.3	1
144	In Situ, Protein-Mediated Generation of a Photochemically Active Chlorophyll Analogue in a Mutant Bacterial Photosynthetic Reaction Center. <i>Biochemistry</i> , 2021, 60, 1260-1275.	2.5	1