James R Diers

List of Publications by Year
in descending order

40 papers	1,606 citations	346980 22 h-index	325983 40 g-index
40 all docs	40 docs citations	40 times ranked	1865 citing authors

#	Article	IF	Citations
1	A perspective on the redox properties of tetrapyrrole macrocycles. Physical Chemistry Chemical Physics, 2021, 23, 19130-19140.	1.3	15
2	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
3	Electronic Structure and Excited-State Dynamics of Ryleneâ€“Tetrapyrrole Panchromatic Absorbers. Journal of Physical Chemistry A, 2021, 125, 7900-7919.	1.1	7
4	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
5	Annulated bacteriochlorins for near-infrared photophysical studies. New Journal of Chemistry, 2019, 43, 7209-7232.	1.4	16
6	New molecular design for blue BODIPYs. New Journal of Chemistry, 2019, 43, 7233-7242.	1.4	7
7	Origin of Panchromaticity in Multichromophoreâ€“Tetrapyrrole Arrays. Journal of Physical Chemistry A, 2018, 122, 7181-7201.	1.1	20
8	Synthesis and photophysical characterization of bacteriochlorins equipped with integral swallowtail substituents. New Journal of Chemistry, 2017, 41, 4360-4376.	1.4	10
9	Synthesis, photophysics and electronic structure of oxobacteriochlorins. New Journal of Chemistry, 2017, 41, 3732-3744.	1.4	16
10	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
11	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
12	Integration of Cyanine, Merocyanine and Styryl Dye Motifs with Synthetic Bacteriochlorins. Photochemistry and Photobiology, 2016, 92, 111-125.	1.3	7
13	Tuning the Electronic Structure and Properties of Peryleneâ€“Porphyrinâ€“Perylene Panchromatic Absorbers. Journal of Physical Chemistry A, 2016, 120, 7434-7450.	1.1	12
14	Effects of Strong Electronic Coupling in Chlorin and Bacteriochlorin Dyads. Journal of Physical Chemistry A, 2016, 120, 379-395.	1.1	28
15	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
16	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
17	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
18	Panchromatic absorbers for solar light-harvesting. Chemical Communications, 2014, 50, 14512-14515.	2.2	34

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Serendipitous synthetic entrÃ©e to tetradehydro analogues of cobalamins. New Journal of Chemistry, 2013, 37, 3964.	1.4	6
22	Photophysical Properties and Electronic Structure of Bacteriochlorinâ€“Chalcones with Extended Nearâ€Infrared Absorption. Photochemistry and Photobiology, 2013, 89, 586-604.	1.3	21
23	Synthesis and Physicochemical Properties of Metallobacteriochlorins. Inorganic Chemistry, 2012, 51, 9443-9464.	1.9	89
24	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
25	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
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	Structural characteristics that make chlorophylls green: interplay of hydrocarbon skeleton and substituents. New Journal of Chemistry, 2011, 35, 76-88.	1.4	40
28	Probing the Rate of Hole Transfer in Oxidized Porphyrin Dyads Using Thallium Hyperfine Clocks. Journal of the American Chemical Society, 2010, 132, 12121-12132.	6.6	8
29	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
30	Diverse porphyrin dimers as candidates for high-density charge-storage molecules. Journal of Porphyrins and Phthalocyanines, 2006, 10, 22-32.	0.4	13
31	Multistate molecular information storage using S-acetylthio-derivatized dyads of triple-decker sandwich coordination compounds. Journal of Porphyrins and Phthalocyanines, 2005, 09, 491-508.	0.4	9
32	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
33	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 Zn2Fb: data from a compar Journal of Materials Chemistry, 2002, 12, 65-80.	6.7	90
34	Design, synthesis, and characterization of prototypical multistate counters in three distinct architecturesElectronic supplementary information (ESI) available: 1H NMR and 13C NMR spectra for each dipyrromethane; absorption, LD-MS, and 1H NMR spectra for each porphyrin and each triple decker; absorption and LD-MS spectra for each triple-decker dyad. See http://www.rsc.org/suppdata/jm/b1/b108520d/. Journal of Materials Chemistry, 2002, 12, 808-828.	6.7	56
35	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
36	Studies related to the design and synthesis of a molecular octal counter. Journal of Materials Chemistry, 2001, 11, 1162-1180.	6.7	95

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37	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
38	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
39	Raman signatures of ligand binding and allosteric conformation change in hexameric insulin. Biopolymers, 2001, 62, 249-260.	1.2	23
40	Qy-Excitation Resonance Raman Spectra of Chlorophyllaand Related Complexes. Normal Mode Characteristics of the Low-Frequency Vibrations. Journal of Physical Chemistry B, 1997, 101, 9635-9644.	1.2	28