James R Diers

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5916288/publications.pdf Version: 2024-02-01



IAMES P DIEDS

#	Article	IF	CITATIONS
1	A perspective on the redox properties of tetrapyrrole macrocycles. Physical Chemistry Chemical Physics, 2021, 23, 19130-19140.	2.8	15
2	Conjugated-linker dependence of the photophysical properties and electronic structure of chlorin dyads. Journal of Porphyrins and Phthalocyanines, 2021, 25, 639-663.	0.8	4
3	Electronic Structure and Excited-State Dynamics of Rylene–Tetrapyrrole Panchromatic Absorbers. Journal of Physical Chemistry A, 2021, 125, 7900-7919.	2.5	7
4	Photophysical Properties and Electronic Structure of Zinc(II) Porphyrins Bearing O–4 <i>meso</i> -Phenyl Substituents: Zinc Porphine to Zinc Tetraphenylporphyrin (ZnTPP). Journal of Physical Chemistry A, 2020, 124, 7776-7794.	2.5	28
5	Annulated bacteriochlorins for near-infrared photophysical studies. New Journal of Chemistry, 2019, 43, 7209-7232.	2.8	16
6	New molecular design for blue BODIPYs. New Journal of Chemistry, 2019, 43, 7233-7242.	2.8	7
7	Origin of Panchromaticity in Multichromophore–Tetrapyrrole Arrays. Journal of Physical Chemistry A, 2018, 122, 7181-7201.	2.5	20
8	Synthesis and photophysical characterization of bacteriochlorins equipped with integral swallowtail substituents. New Journal of Chemistry, 2017, 41, 4360-4376.	2.8	10
9	Synthesis, photophysics and electronic structure of oxobacteriochlorins. New Journal of Chemistry, 2017, 41, 3732-3744.	2.8	16
10	Tailoring Panchromatic Absorption and Excited-State Dynamics of Tetrapyrrole–Chromophore (Bodipy, Rylene) Arrays—Interplay of Orbital Mixing and Configuration Interaction. Journal of the American Chemical Society, 2017, 139, 17547-17564.	13.7	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.	2.5	75
12	Integration of Cyanine, Merocyanine and Styryl Dye Motifs with Synthetic Bacteriochlorins. Photochemistry and Photobiology, 2016, 92, 111-125.	2.5	7
13	Tuning the Electronic Structure and Properties of Perylene–Porphyrin–Perylene Panchromatic Absorbers. Journal of Physical Chemistry A, 2016, 120, 7434-7450.	2.5	12
14	Effects of Strong Electronic Coupling in Chlorin and Bacteriochlorin Dyads. Journal of Physical Chemistry A, 2016, 120, 379-395.	2.5	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.	2.6	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.	2.5	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.	2.6	55
18	Panchromatic absorbers for solar light-harvesting. Chemical Communications, 2014, 50, 14512-14515.	4.1	34

JAMES R DIERS

#	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.	2.6	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.	2.6	36
21	Serendipitous synthetic entrée to tetradehydro analogues of cobalamins. New Journal of Chemistry, 2013, 37, 3964.	2.8	6
22	Photophysical Properties and Electronic Structure of Bacteriochlorin–Chalcones with Extended Nearâ€Infrared Absorption. Photochemistry and Photobiology, 2013, 89, 586-604.	2.5	21
23	Synthesis and Physicochemical Properties of Metallobacteriochlorins. Inorganic Chemistry, 2012, 51, 9443-9464.	4.0	89
24	Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 3: The Distinctive Impact of Auxochromes at the 7― <i>versus</i> 3â€Positions. Photochemistry and Photobiology, 2012, 88, 651-674.	2.5	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.	2.8	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.	2.6	93
27	Structural characteristics that make chlorophylls green: interplay of hydrocarbon skeleton and substituents. New Journal of Chemistry, 2011, 35, 76-88.	2.8	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.	13.7	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.	3.9	91
30	Diverse porphyrin dimers as candidates for high-density charge-storage molecules. Journal of Porphyrins and Phthalocyanines, 2006, 10, 22-32.	0.8	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.	0.8	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.	4.0	214
33	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 pornbyrins and multipornbyrin arrays; a description of exploratory studies in the purification of	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	6.7	56
35	nt perwww.rsc.org/supportaining r/p1/95/21/1/ Journal of Waterials Chemistry 9002, 12, 808-828 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 12′ and 14′, and pentad 18); analytical SEC data for all porphyrin arrays. See http://www.rsc.org/suppdata/im/b1/b108168c/. Journal	6.7	43
36	of Materials Chemistry, 2002, 12, 1530-1552. Studies related to the design and synthesis of a molecular octal counter. Journal of Materials Chemistry, 2001, 11, 1162-1180.	6.7	95

JAMES R DIERS

#	Article	IF	CITATIONS
37	Synthesis and excited-state photodynamics of perylene–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.	2.6	85
39	Raman signatures of ligand binding and allosteric conformation change in hexameric insulin. Biopolymers, 2001, 62, 249-260.	2.4	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.	2.6	28