

David Bialas

List of Publications by Year in descending order

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26
papers

1,545
citations

471509

17
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526287

27
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docs citations

30
times ranked

2090
citing authors

#	ARTICLE	IF	CITATIONS
1	Slip-Stacked π -Aggregate Materials for Organic Solar Cells and Photodetectors. <i>Advanced Materials</i> , 2022, 34, e2104678.	21.0	77
2	Tuning Exciton Coupling of Merocyanine Nucleoside Dimers by RNA, DNA and GNA Double Helix Conformations. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	18
3	Tuning Exciton Coupling of Merocyanine Nucleoside Dimers by RNA, DNA and GNA Double Helix Conformations. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	8
4	Supramolecular π -heterojunction of C ₆₀ -functionalized bis(merocyanine) quadruple stack: A model system for charge carrier separation and recombination in organic solar cells. <i>Natural Sciences</i> , 2022, 2, .	2.1	0
5	Reversible fluorescence modulation through the photoisomerization of an azobenzene-bridged perylene bisimide cyclophane. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1424-1430.	4.5	10
6	Perspectives in Dye Chemistry: A Rational Approach toward Functional Materials by Understanding the Aggregate State. <i>Journal of the American Chemical Society</i> , 2021, 143, 4500-4518.	13.7	149
7	Switching resonance character within merocyanine stacks and its impact on excited-state dynamics. <i>CheM</i> , 2021, 7, 715-725.	11.7	16
8	Innen-Äußertitelbild: Polymorphism in Squaraine Dye Aggregates by Self-Assembly Pathway Differentiation: Panchromatic Tubular Dye Nanorods versus π -Aggregate Nanosheets (<i>Angew. Chem.</i>) Tj ETQq0 0 0.0 BT /Overlock 10 T	13.8	58
9	Polymorphism in Squaraine Dye Aggregates by Self-Assembly Pathway Differentiation: Panchromatic Tubular Dye Nanorods versus π -Aggregate Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11949-11958.	13.8	58
10	An Efficient Narrowband Near-Infrared at 1040 nm Organic Photodetector Realized by Intermolecular Charge Transfer Mediated Coupling Based on a Squaraine Dye. <i>Advanced Materials</i> , 2021, 33, e2100582.	21.0	88
11	Polymorphism in Squaraine Dye Aggregates by Self-Assembly Pathway Differentiation: Panchromatic Tubular Dye Nanorods versus π -Aggregate Nanosheets. <i>Angewandte Chemie</i> , 2021, 133, 12056-12065.	2.0	19
12	Folding and fluorescence enhancement with strong odd-even effect for a series of merocyanine dye oligomers. <i>Chemical Science</i> , 2021, 12, 8342-8352.	7.4	21
13	Unusual Non-Kasha Photophysical Behavior of Aggregates of Push-Pull Donor-Acceptor Chromophores. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2146-2159.	3.1	22
14	Perylene Diimide-Based H _j - and h _j -Aggregates: The Prospect of Exciton Band Shape Engineering in Organic Materials. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20567-20578.	3.1	91
15	Davydov Splitting in Squaraine Dimers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18734-18745.	3.1	41
16	Bis(merocyanine) Hetero-Folded Dimers: Evaluation of Exciton Coupling between Different Types of π -Stacked Chromophores. <i>Chemistry - A European Journal</i> , 2019, 25, 11294-11301.	3.3	11
17	Bis(merocyanine) Homo-Folded Dimers: Evaluation of Electronic and Spectral Changes in Well-Defined Dye Aggregate Geometries. <i>Chemistry - A European Journal</i> , 2019, 25, 11285-11293.	3.3	11
18	Tunable Low-LUMO Boron-Doped Polycyclic Aromatic Hydrocarbons by General One-Pot C-H Borylations. <i>Journal of the American Chemical Society</i> , 2019, 141, 9096-9104.	13.7	103

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19	Defined Merocyanine Dye Stacks from a Dimer up to an Octamer by Spacer-Encoded Self-Assembly Approach. <i>Journal of the American Chemical Society</i> , 2019, 141, 7428-7438.	13.7	53
20	Discrete π -Stacks of Perylene Bisimide Dyes within Folda-Dimers: Insight into Long- and Short-Range Exciton Coupling. <i>Journal of the American Chemical Society</i> , 2018, 140, 9986-9995.	13.7	136
21	Exciton Coupling of Merocyanine Dyes from H- to J-type in the Solid State by Crystal Engineering. <i>Nano Letters</i> , 2017, 17, 1719-1726.	9.1	59
22	Structural and quantum chemical analysis of exciton coupling in homo- and heteroaggregate stacks of merocyanines. <i>Nature Communications</i> , 2016, 7, 12949.	12.8	58
23	Exciton-Vibrational Couplings in Homo- and Heterodimer Stacks of Perylene Bisimide Dyes within Cyclophanes: Studies on Absorption Properties and Theoretical Analysis. <i>Chemistry - A European Journal</i> , 2016, 22, 15011-15018.	3.3	17
24	Organic Semiconductors based on Dyes and Color Pigments. <i>Advanced Materials</i> , 2016, 28, 3615-3645.	21.0	377
25	Folding-induced exciton coupling in homo- and heterodimers of merocyanine dyes. <i>Chemical Communications</i> , 2016, 52, 3777-3780.	4.1	17
26	Spacer-Modulated Differentiation Between Self-Assembly and Folding Pathways for Bichromophoric Merocyanine Dyes. <i>Chemistry - A European Journal</i> , 2015, 21, 14851-14861.	3.3	27