

# David Bialas

## List of Publications by Year in descending order

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26  
papers

1,545  
citations

471061

17  
h-index

525886

27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2090  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Semiconductors based on Dyes and Color Pigments. <i>Advanced Materials</i> , 2016, 28, 3615-3645.	11.1	377
2	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.	6.6	149
3	Discrete $\pi$ -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.	6.6	136
4	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.	6.6	103
5	Perylene Diimide-Based H <sub>j</sub> - and h <sub>j</sub> -Aggregates: The Prospect of Exciton Band Shape Engineering in Organic Materials. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20567-20578.	1.5	91
6	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.	11.1	88
7	Slip-Stacked $\pi$ -Aggregate Materials for Organic Solar Cells and Photodetectors. <i>Advanced Materials</i> , 2022, 34, e2104678.	11.1	77
8	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.	4.5	59
9	Structural and quantum chemical analysis of exciton coupling in homo- and heteroaggregate stacks of merocyanines. <i>Nature Communications</i> , 2016, 7, 12949.	5.8	58
10	Polymorphism in Squaraine Dye Aggregates by Self-Assembly Pathway Differentiation: Panchromatic Tubular Dye Nanorods versus $\pi$ -Aggregate Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11949-11958.	7.2	58
11	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.	6.6	53
12	Davydov Splitting in Squaraine Dimers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18734-18745.	1.5	41
13	Spacer-Modulated Differentiation Between Self-Assembly and Folding Pathways for Bichromophoric Merocyanine Dyes. <i>Chemistry - A European Journal</i> , 2015, 21, 14851-14861.	1.7	27
14	Unusual Non-Kasha Photophysical Behavior of Aggregates of Push-Pull Donor-Acceptor Chromophores. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2146-2159.	1.5	22
15	Folding and fluorescence enhancement with strong odd-even effect for a series of merocyanine dye oligomers. <i>Chemical Science</i> , 2021, 12, 8342-8352.	3.7	21
16	Polymorphism in Squaraine Dye Aggregates by Self-Assembly Pathway Differentiation: Panchromatic Tubular Dye Nanorods versus $\pi$ -Aggregate Nanosheets. <i>Angewandte Chemie</i> , 2021, 133, 12056-12065.	1.6	19
17	Tuning Exciton Coupling of Merocyanine Nucleoside Dimers by RNA, DNA and GNA Double Helix Conformations. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	18
18	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.	1.7	17

#	ARTICLE	IF	CITATIONS
19	Folding-induced exciton coupling in homo- and heterodimers of merocyanine dyes. <i>Chemical Communications</i> , 2016, 52, 3777-3780.	2.2	17
20	Switching resonance character within merocyanine stacks and its impact on excited-state dynamics. <i>CheM</i> , 2021, 7, 715-725.	5.8	16
21	Bis(merocyanine) Hetero- and Homodimers: Evaluation of Exciton Coupling between Different Types of $\pi$ -Stacked Chromophores. <i>Chemistry - A European Journal</i> , 2019, 25, 11294-11301.	1.7	11
22	Bis(merocyanine) Homo- and Heterodimers: Evaluation of Electronic and Spectral Changes in Well-Defined Dye Aggregate Geometries. <i>Chemistry - A European Journal</i> , 2019, 25, 11285-11293.	1.7	11
23	Reversible fluorescence modulation through the photoisomerization of an azobenzene-bridged perylene bisimide cyclophane. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1424-1430.	2.3	10
24	Tuning Exciton Coupling of Merocyanine Nucleoside Dimers by RNA, DNA and GNA Double Helix Conformations. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
25	Innenr&uuml;cktitelbild: Polymorphism in Squaraine Dye Aggregates by Self-Assembly Pathway Differentiation: Panchromatic Tubular Dye Nanorods versus $\pi$ -Aggregate Nanosheets ( <i>Angew. Chem.</i> ) Tj ETQq1 1 @.784314@BT /Over		
26	Supramolecular $\pi$ -heterojunction of C <sub>60</sub> -functionalized bis(merocyanine) quadruple stack: A model system for charge carrier separation and recombination in organic solar cells. <i>Natural Sciences</i> , 2022, 2, .	1.0	0