Justin R Caram

List of Publications by Year
in descending order

47 papers	3,324 citations	218677 26 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	3658 citing authors

#	Article	IF	Citations
1	Long-lived quantum coherence in photosynthetic complexes at physiological temperature. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12766-12770.	7.1	886
2	Shortwave infrared fluorescence imaging with the clinically approved near-infrared dye indocyanine green. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4465-4470.	7.1	498
3	Flavylium Polymethine Fluorophores for Nearâ€•and Shortwave Infrared Imaging. Angewandte Chemie - International Edition, 2017, 56, 13126-13129.	13.8	301
4	Direct evidence of quantum transport in photosynthetic light-harvesting complexes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20908-20912.	7.1	203
5	Bright Chromenylium Polymethine Dyes Enable Fast, Four-Color <i>In Vivo</i> Imaging with Shortwave Infrared Detection. Journal of the American Chemical Society, 2021, 143, 6836-6846.	13.7	98
6	Room-Temperature Micron-Scale Exciton Migration in a Stabilized Emissive Molecular Aggregate. Nano Letters, 2016, 16, 6808-6815.	9.1	94
7	Slow-Injection Growth of Seeded CdSe/CdS Nanorods with Unity Fluorescence Quantum Yield and Complete Shell to Core Energy Transfer. ACS Nano, 2016, 10, 3295-3301.	14.6	92
8	A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035.	14.6	74
9	PbS Nanocrystal Emission Is Governed by Multiple Emissive States. Nano Letters, 2016, 16, 6070-6077.	9.1	71
10	Persistent Interexcitonic Quantum Coherence in CdSe Quantum Dots. Journal of Physical Chemistry Letters, 2014, 5, 196-204.	4.6	64
11	Exploring size and state dynamics in CdSe quantum dots using two-dimensional electronic spectroscopy. Journal of Chemical Physics, 2014, 140, 084701.	3.0	62
12	Approaching the intrinsic exciton physics limit in two-dimensional semiconductor diodes. Nature, 2021, 599, 404-410.	27.8	57
13	Dynamics of electronic dephasing in the Fennaâ€"Matthewsâ€"Olson complex. New Journal of Physics, 2010, 12, 065042.	2.9	50
14	Establishing design principles for emissive organic SWIR chromophores from energy gap laws. CheM, 2021, 7, 3359-3376.	11.7	48
15	Flavylium Polymethine Fluorophores for Nearâ€•and Shortwave Infrared Imaging. Angewandte Chemie, 2017, 129, 13306-13309.	2.0	47
16	Correlated Protein Environments Drive Quantum Coherence Lifetimes in Photosynthetic Pigment-Protein Complexes. CheM, 2018, 4, 138-149.	11.7	45
17	Near-Infrared Quantum Dot Emission Enhanced by Stabilized Self-Assembled J-Aggregate Antennas. Nano Letters, 2017, 17, 7665-7674.	9.1	42
18	Two-dimensional electronic spectroscopy of bacteriochlorophyll <i>a</i> in solution: Elucidating the coherence dynamics of the Fenna-Matthews-Olson complex using its chromophore as a control. Journal of Chemical Physics, 2012, 137, 125101.	3.0	39

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19	Dispersion-free continuum two-dimensional electronic spectrometer. Applied Optics, 2014, 53, 1909.	1.8	39
20	Excited and ground state vibrational dynamics revealed by two-dimensional electronic spectroscopy. Journal of Chemical Physics, 2012, 137, 024507.	3.0	38
21	Energy Transfer Observed in Live Cells Using Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2013, 4, 3636-3640.	4.6	34
22	Photochemical Control of Exciton Superradiance in Light-Harvesting Nanotubes. ACS Nano, 2018, 12, 4556-4564.	14.6	34
23	Design Principles for Two-Dimensional Molecular Aggregates Using Kashaâ€™s Model: Tunable Photophysics in Near and Short-Wave Infrared. Journal of Physical Chemistry C, 2019, 123, 18702-18710.	3.1	31
24	Extracting dynamics of excitonic coherences in congested spectra of photosynthetic light harvesting antenna complexes. Faraday Discussions, 2011, 153, 93.	3.2	29
25	Towards a coherent picture of excitonic coherence in the Fennaâ€“Matthewsâ€“Olson complex. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 154013.	1.5	29
26	Multiexciton Lifetimes Reveal Triexciton Emission Pathway in CdSe Nanocrystals. Nano Letters, 2018, 18, 5153-5158.	9.1	27
27	Large-Area Synthesis and Patterning of All-Inorganic Lead Halide Perovskite Thin Films and Heterostructures. Nano Letters, 2021, 21, 1454-1460.	9.1	27
28	Franck-Condon Tuning of Optical Cycling Centers by Organic Functionalization. Physical Review Letters, 2021, 126, 123002.	7.8	26
29	Signatures of correlated excitonic dynamics in two-dimensional spectroscopy of the Fenna-Matthew-Olson photosynthetic complex. Journal of Chemical Physics, 2012, 136, 104505.	3.0	24
30	Mercury Chalcogenide Nanoplateletâ€“Quantum Dot Heterostructures as a New Class of Continuously Tunable Bright Shortwave Infrared Emitters. Journal of Physical Chemistry Letters, 2020, 11, 3473-3480.	4.6	22
31	Generalized Kashaâ€™s Model: T-Dependent Spectroscopy Reveals Short-Range Structures of 2D Excitonic Systems. CheM, 2019, 5, 3135-3150.	11.7	20
32	Optical Cycling Functionalization of Arenes. Journal of Physical Chemistry Letters, 2021, 12, 3989-3995.	4.6	20
33	Thermodynamic Control over Molecular Aggregate Assembly Enables Tunable Excitonic Properties across the Visible and Near-Infrared. Journal of Physical Chemistry Letters, 2020, 11, 8026-8033.	4.6	17
34	Silicon incorporation in polymethine dyes. Chemical Communications, 2020, 56, 6110-6113.	4.1	17
35	Bridging the gap between H- and J-aggregates: Classification and supramolecular tunability for excitonic band structures in two-dimensional molecular aggregates. Chemical Physics Reviews, 2022, 3, .	5.7	17
36	Single Nanocrystal Spectroscopy of Shortwave Infrared Emitters. ACS Nano, 2019, 13, 1042-1049.	14.6	16

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37	A molecular boron cluster-based chromophore with dual emission. Dalton Transactions, 2020, 49, 16245-16251.	3.3	15
38	Understanding the influence of disorder on the exciton dynamics and energy transfer in Zn-phthalocyanine H-aggregates. Physical Chemistry Chemical Physics, 2018, 20, 22331-22341.	2.8	9
39	Dielectric Screening Modulates Semiconductor Nanoplatelet Excitons. Journal of Physical Chemistry Letters, 2021, 12, 4958-4964.	4.6	9
40	Extracting the average single-molecule biexciton photoluminescence lifetime from a solution of chromophores. Optics Letters, 2016, 41, 4823.	3.3	8
41	Vibronic coherences in light harvesting nanotubes: unravelling the role of dark states. Journal of Materials Chemistry C, 2022, 10, 7216-7226.	5.5	8
42	Decay-Associated Fourier Spectroscopy: Visible to Shortwave Infrared Time-Resolved Photoluminescence Spectra. Journal of Physical Chemistry A, 2019, 123, 6792-6798.	2.5	7
43	Benchmarking the dynamic luminescent properties and UV stability of B18H22-based materials. Dalton Transactions, 0, , .	3.3	6
44	Surface chemical trapping of optical cycling centers. Physical Chemistry Chemical Physics, 2021, 23, 211-218.	2.8	5
45	Betheâ€"Salpeter equation spectra for very large systems. Journal of Chemical Physics, 2022, 157, .	3.0	4
46	Mesoscale Quantum-Confined Semiconductor Nanoplatelets through Seeded Growth. Chemistry of Materials, 2022, 34, 6048-6056.	6.7	3
47	Stochastically Realized Observables for Excitonic Molecular Aggregates. Journal of Physical Chemistry A, 2020, 124, 10111-10120.	2.5	2