

Ryan D Pensack

List of Publications by Year in descending order

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48
papers

2,535
citations

201385

27
h-index

223531

46
g-index

48
all docs

48
docs citations

48
times ranked

3566
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-Tuned Lead Halide Perovskite Nanocrystals. <i>Advanced Materials</i> , 2016, 28, 566-573.	11.1	215
2	Exciton Delocalization Drives Rapid Singlet Fission in Nanoparticles of Acene Derivatives. <i>Journal of the American Chemical Society</i> , 2015, 137, 6790-6803.	6.6	195
3	Observation of Two Triplet-Pair Intermediates in Singlet Exciton Fission. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2370-2375.	2.1	186
4	Vibrational coherence probes the mechanism of ultrafast electron transfer in polymer-fullerene blends. <i>Nature Communications</i> , 2014, 5, 4933.	5.8	131
5	Charge Photogeneration in Neat Conjugated Polymers. <i>Chemistry of Materials</i> , 2014, 26, 561-575.	3.2	118
6	Ultrafast Triplet Formation in Thionated Perylene Diimides. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9996-10004.	1.5	118
7	Beyond the Adiabatic Limit: Charge Photogeneration in Organic Photovoltaic Materials. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2255-2263.	2.1	101
8	Striking the right balance of intermolecular coupling for high-efficiency singlet fission. <i>Chemical Science</i> , 2018, 9, 6240-6259.	3.7	97
9	Room-temperature exciton coherence and dephasing in two-dimensional nanostructures. <i>Nature Communications</i> , 2015, 6, 6086.	5.8	94
10	Barrierless Free Carrier Formation in an Organic Photovoltaic Material Measured with Ultrafast Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 15986-15987.	6.6	93
11	Influence of Acceptor Structure on Barriers to Charge Separation in Organic Photovoltaic Materials. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4824-4831.	1.5	86
12	Dynamic Exchange During Triplet Transport in Nanocrystalline TIPS-Pentacene Films. <i>Journal of the American Chemical Society</i> , 2016, 138, 16069-16080.	6.6	84
13	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 419-426.	2.1	74
14	The Nature of Excimer Formation in Crystalline Pyrene Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21004-21017.	1.5	71
15	Ultrafast vibrational spectroscopy of charge-carrier dynamics in organic photovoltaic materials. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2575.	1.3	62
16	Direct Observation of Correlated Triplet Pair Dynamics during Singlet Fission Using Ultrafast Mid-IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2012-2022.	1.5	62
17	Triplet Energy Transfer Governs the Dissociation of the Correlated Triplet Pair in Exothermic Singlet Fission. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4087-4095.	2.1	58
18	Solution-processable, crystalline material for quantitative singlet fission. <i>Materials Horizons</i> , 2017, 4, 915-923.	6.4	56

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19	DNA-Templated Aggregates of Strongly Coupled Cyanine Dyes: Nonradiative Decay Governs Exciton Lifetimes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2386-2392.	2.1	49
20	Evidence for the Rapid Conversion of Primary Photoexcitations to Triplet States in Seleno- and Telluro- Analogues of Poly(3-hexylthiophene). <i>Journal of Physical Chemistry B</i> , 2014, 118, 2589-2597.	1.2	46
21	Exciton Delocalization in Indolenine Squaraine Aggregates Templated by DNA Holliday Junction Scaffolds. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9636-9647.	1.2	43
22	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3895-3901.	2.1	41
23	An All-Optical Excitonic Switch Operated in the Liquid and Solid Phases. <i>ACS Nano</i> , 2019, 13, 2986-2994.	7.3	34
24	Infrared Kinetic/Structural Studies of Barrier Reformation in Intact Stratum Corneum following Thermal Perturbation. <i>Applied Spectroscopy</i> , 2006, 60, 1399-1404.	1.2	32
25	Excitation Transport and Charge Separation in an Organic Photovoltaic Material: Watching Excitations Diffuse to Interfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3926-3934.	1.5	32
26	Charge Trapping in Organic Photovoltaic Materials Examined with Time-Resolved Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5344-5350.	1.5	31
27	Photophysical characterization and time-resolved spectroscopy of a anthradithiophene dimer: exploring the role of conformation in singlet fission. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23162-23175.	1.3	31
28	Rotaxane rings promote oblique packing and extended lifetimes in DNA-templated molecular dye aggregates. <i>Communications Chemistry</i> , 2021, 4, .	2.0	26
29	Excited-State Lifetimes of DNA-Templated Cyanine Dimer, Trimer, and Tetramer Aggregates: The Role of Exciton Delocalization, Dye Separation, and DNA Heterogeneity. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10240-10259.	1.2	26
30	Vibrational Spectroscopy of Electronic Processes in Emerging Photovoltaic Materials. <i>Accounts of Chemical Research</i> , 2013, 46, 1538-1547.	7.6	25
31	Vibrational solvatochromism in organic photovoltaic materials: method to distinguish molecules at donor/acceptor interfaces. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14144.	1.3	24
32	First-principles studies of substituent effects on squaraine dyes. <i>RSC Advances</i> , 2021, 11, 19029-19040.	1.7	21
33	Temperature-Independent Vibrational Dynamics in an Organic Photovoltaic Material. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12242-12251.	1.2	19
34	Ultrafast probes of charge transfer states in organic photovoltaic materials. <i>Chemical Physics Letters</i> , 2011, 515, 197-205.	1.2	19
35	Influence of Hydrophobicity on Excitonic Coupling in DNA-Templated Indolenine Squaraine Dye Aggregates. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3475-3488.	1.5	19
36	Anisotropic Conjugated Polymer Chain Conformation Tailors the Energy Migration in Nanofibers. <i>Journal of the American Chemical Society</i> , 2016, 138, 15497-15505.	6.6	16

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37	Singlet Fission in Core-Shell Micelles of End-Functionalized Polymers. <i>Chemistry of Materials</i> , 2018, 30, 4409-4421.	3.2	16
38	Tuning between Quenching and Energy Transfer in DNA-Templated Heterodimer Aggregates. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2782-2791.	2.1	15
39	Oblique Packing and Tunable Excitonic Coupling in DNA-Templated Squaraine Rotaxane Dimer Aggregates. <i>ChemPhotoChem</i> , 2022, 6, .	1.5	12
40	Characterizing Mode Anharmonicity and Huang-Rhys Factors Using Models of Femtosecond Coherence Spectra. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5413-5423.	2.1	12
41	Vibrational Energy Mediates Charge Separation in Organic Photovoltaic Materials. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1776-1783.	1.9	11
42	Synthesis of Substituted Cy5 Phosphoramidite Derivatives and Their Incorporation into Oligonucleotides Using Automated DNA Synthesis. <i>ACS Omega</i> , 2022, 7, 11002-11016.	1.6	11
43	Excited-State Dynamics of 5,14- vs 6,13-Bis(trialkylsilylethynyl)-Substituted Pentacenes: Implications for Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9784-9793.	1.5	9
44	Direct Synthesis of CdSe Nanocrystals with Electroactive Ligands. <i>Chemistry of Materials</i> , 2016, 28, 4953-4961.	3.2	7
45	Organizing Crystalline Functionalized Pentacene Using Periodicity of Poly(Vinyl Alcohol). <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 516-523.	2.1	6
46	Managing Complex Photophysical Pathways for Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2380-2381.	2.1	1
47	Interfacial charge separation and trapping in a photovoltaic polymer blend observed with ultrafast vibrational spectroscopy. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
48	Ultrafast IR Spectroscopic Study of Free Carrier Formation in OPV Polymer Blends. <i>ACS Symposium Series</i> , 2010, , 53-69.	0.5	0