

# Christopher Grieco

## List of Publications by Year in descending order

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35  
papers

1,126  
citations

471371

17  
h-index

414303

32  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1736  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Two Triplet-Pair Intermediates in Singlet Exciton Fission. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2370-2375.	2.1	186
2	Striking the right balance of intermolecular coupling for high-efficiency singlet fission. <i>Chemical Science</i> , 2018, 9, 6240-6259.	3.7	97
3	Molecular Origins of Defects in Organohalide Perovskites and Their Influence on Charge Carrier Dynamics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12392-12402.	1.5	89
4	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
5	Approaching Bulk Carrier Dynamics in Organo-Halide Perovskite Nanocrystalline Films by Surface Passivation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1148-1153.	2.1	83
6	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
7	Solution-processable, crystalline material for quantitative singlet fission. <i>Materials Horizons</i> , 2017, 4, 915-923.	6.4	56
8	Time-Resolved Infrared Spectroscopy Directly Probes Free and Trapped Carriers in Organo-Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 651-658.	8.8	43
9	Triplet Transfer Mediates Triplet Pair Separation during Singlet Fission in 6,13-Bis(triisopropylsilylethynyl)Pentacene. <i>Advanced Functional Materials</i> , 2017, 27, 1703929.	7.8	40
10	Harnessing Molecular Vibrations to Probe Triplet Dynamics During Singlet Fission. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5700-5706.	2.1	39
11	Probing the heterogeneous structure of eumelanin using ultrafast vibrational fingerprinting. <i>Nature Communications</i> , 2020, 11, 4569.	5.8	35
12	Using molecular vibrations to probe exciton delocalization in films of perylene diimides with ultrafast mid-IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24829-24839.	1.3	35
13	Ultrafast spectral hole burning reveals the distinct chromophores in eumelanin and their common photoresponse. <i>Chemical Science</i> , 2020, 11, 1248-1259.	3.7	34
14	Molecular Rectification in Conjugated Block Copolymer Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6978-6988.	1.5	32
15	Electron-Phonon Coupling and Resonant Relaxation from 1D and 1P States in PbS Quantum Dots. <i>ACS Nano</i> , 2018, 12, 6263-6272.	7.3	22
16	Controlling Polymorphism in Poly(3-Hexylthiophene) through Addition of Ferrocene for Enhanced Charge Mobilities in Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2015, 25, 542-551.	7.8	20
17	Intermolecular Hydrogen Bonding Modulates O-H Photodissociation in Molecular Aggregates of a Catechol Derivative. <i>Photochemistry and Photobiology</i> , 2019, 95, 163-175.	1.3	19
18	Vibrational probe of the origin of singlet exciton fission in TIPS-pentacene solutions. <i>Journal of Chemical Physics</i> , 2019, 151, 154701.	1.2	18

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19	Conjugated Block Copolymers as Model Systems to Examine Mechanisms of Charge Generation in Donor–Acceptor Materials. <i>Advanced Functional Materials</i> , 2019, 29, 1804858.	7.8	17
20	Influence of Ligand Structure on Excited State Surface Chemistry of Lead Sulfide Quantum Dots. <i>Journal of the American Chemical Society</i> , 2021, 143, 13824-13834.	6.6	17
21	Ultrafast Triplet Pair Separation and Triplet Trapping following Singlet Fission in Amorphous Pentacene Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23567-23578.	1.5	15
22	Effects of Intra- and Intermolecular Hydrogen Bonding on O–H Bond Photodissociation Pathways of a Catechol Derivative. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5356-5366.	1.1	14
23	Catechol–Based Molecular Memory Film for Redox Linked Bioelectronics. <i>Advanced Electronic Materials</i> , 2020, 6, 2000452.	2.6	14
24	Revealing the Importance of Energetic and Entropic Contributions to the Driving Force for Charge Photogeneration. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39933-39941.	4.0	12
25	Probing eumelanin photoprotection using a catechol:quinone heterodimer model system. <i>Faraday Discussions</i> , 2019, 216, 520-537.	1.6	11
26	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
27	Mechanisms of Energy Transfer and Enhanced Stability of Carbide Nitride Phosphors for Solid-State Lighting. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12547-12555.	4.0	6
28	Ultrafast Electron Injection and Recombination Dynamics of Coumarin 343-Sensitized Cerium Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14827-14835.	1.5	5
29	High Sensitivity Nanosecond Mid-Infrared Transient Absorption Spectrometer Enabling Low Excitation Density Measurements of Electronic Materials. <i>Applied Spectroscopy</i> , 2016, 70, 1726-1732.	1.2	4
30	Photo-protection/photo-damage in natural systems: general discussion. <i>Faraday Discussions</i> , 2019, 216, 538-563.	1.6	4
31	Exciton–Phonon Coupling and Carrier Relaxation in PbS Quantum Dots: The Case of Carboxylate Ligands. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22622-22629.	1.5	3
32	Molecular Memory: Catechol–Based Molecular Memory Film for Redox Linked Bioelectronics (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	2.8	1
33	Photovoltaics and bio-inspired light harvesting: general discussion. <i>Faraday Discussions</i> , 2019, 216, 269-300.	1.6	0
34	Photo-induced electron transfer: general discussion. <i>Faraday Discussions</i> , 2019, 216, 434-459.	1.6	0
35	Time-resolved optical spectroscopy: A versatile, complementary tool for advancing cutting-edge materials technologies. <i>MRS Bulletin</i> , 2019, 44, 519-520.	1.7	0