

Daniel N Congreve

List of Publications by Year in descending order

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papers

5,036
citations

147801

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docs citations

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times ranked

5343
citing authors

#	ARTICLE	IF	CITATIONS
1	External Quantum Efficiency Above 100% in a Singlet-Exciton-Fission-Based Organic Photovoltaic Cell. <i>Science</i> , 2013, 340, 334-337.	12.6	783
2	Photoredox catalysis using infrared light via triplet fusion upconversion. <i>Nature</i> , 2019, 565, 343-346.	27.8	447
3	Solid-state infrared-to-visible upconversion sensitized by colloidal nanocrystals. <i>Nature Photonics</i> , 2016, 10, 31-34.	31.4	418
4	A transferable model for singlet-fission kinetics. <i>Nature Chemistry</i> , 2014, 6, 492-497.	13.6	402
5	Efficient Blue and White Perovskite Light-Emitting Diodes via Manganese Doping. <i>Joule</i> , 2018, 2, 2421-2433.	24.0	308
6	Singlet Exciton Fission Photovoltaics. <i>Accounts of Chemical Research</i> , 2013, 46, 1300-1311.	15.6	271
7	Perovskite light-emitting diodes. <i>Nature Electronics</i> , 2022, 5, 203-216.	26.0	268
8	Energy harvesting of non-emissive triplet excitons in tetracene by emissive PbS nanocrystals. <i>Nature Materials</i> , 2014, 13, 1039-1043.	27.5	235
9	Sensitization of silicon by singlet exciton fission in tetracene. <i>Nature</i> , 2019, 571, 90-94.	27.8	221
10	Reducing Architecture Limitations for Efficient Blue Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, e1706226.	21.0	181
11	Nanoscale transport of charge-transfer states in organic donor-acceptor blends. <i>Nature Materials</i> , 2015, 14, 1130-1134.	27.5	159
12	Tunable Light-Emitting Diodes Utilizing Quantum-Confined Layered Perovskite Emitters. <i>ACS Photonics</i> , 2017, 4, 476-481.	6.6	124
13	Triplet fusion upconversion nanocapsules for volumetric 3D printing. <i>Nature</i> , 2022, 604, 474-478.	27.8	100
14	Enhanced external quantum efficiency in an organic photovoltaic cell via singlet fission exciton sensitizer. <i>Applied Physics Letters</i> , 2012, 101, 113304.	3.3	97
15	Spin-dependent charge transfer state design rules in organic photovoltaics. <i>Nature Communications</i> , 2015, 6, 6415.	12.8	83
16	Solid state photon upconversion utilizing thermally activated delayed fluorescence molecules as triplet sensitizer. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	80
17	Singlet fission efficiency in tetracene-based organic solar cells. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	79
18	Slow light enhanced singlet exciton fission solar cells with a 126% yield of electrons per photon. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	72

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19	Triplet Harvesting from Intramolecular Singlet Fission in Polytetracene. <i>Advanced Materials</i> , 2017, 29, 1701416.	21.0	70
20	Tunable Emission from Triplet Fusion Upconversion in Diketopyrrolopyrroles. <i>Journal of the American Chemical Society</i> , 2019, 141, 3777-3781.	13.7	66
21	Mn ²⁺ Doping Enhances the Brightness, Efficiency, and Stability of Bulk Perovskite Light-Emitting Diodes. <i>ACS Photonics</i> , 2019, 6, 1111-1117.	6.6	61
22	Nanostructured Singlet Fission Photovoltaics Subject to Triplet Charge Annihilation. <i>Advanced Materials</i> , 2014, 26, 1366-1371.	21.0	51
23	Annihilator dimers enhance triplet fusion upconversion. <i>Chemical Science</i> , 2019, 10, 3969-3975.	7.4	51
24	Photon Upconversion in Aqueous Nanodroplets. <i>Journal of the American Chemical Society</i> , 2019, 141, 9180-9184.	13.7	46
25	Anthracene Diphosphate Ligands for CdSe Quantum Dots; Molecular Design for Efficient Upconversion. <i>Chemistry of Materials</i> , 2020, 32, 1461-1466.	6.7	46
26	Quantifying mobile ions and electronic defects in perovskite-based devices with temperature-dependent capacitance measurements: Frequency vs time domain. <i>Journal of Chemical Physics</i> , 2020, 152, 044202.	3.0	46
27	The Role of Electron-Hole Separation in Thermally Activated Delayed Fluorescence in Donor-Acceptor Blends. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25591-25597.	3.1	45
28	Charge Carrier Localization in Doped Perovskite Nanocrystals Enhances Radiative Recombination. <i>Journal of the American Chemical Society</i> , 2021, 143, 8647-8653.	13.7	43
29	Molecular Engineering of Chromophores to Enable Triplet-Triplet Annihilation Upconversion. <i>Journal of the American Chemical Society</i> , 2020, 142, 19917-19925.	13.7	42
30	Manganese Doping Stabilizes Perovskite Light-Emitting Diodes by Reducing Ion Migration. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1522-1528.	4.3	37
31	An energetics perspective on why there are so few triplet-triplet annihilation emitters. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10816-10824.	5.5	32
32	Discovery of blue singlet exciton fission molecules via a high-throughput virtual screening and experimental approach. <i>Journal of Chemical Physics</i> , 2019, 151, 121102.	3.0	24
33	Mapping the Trap-State Landscape in 2D Metal-Halide Perovskites Using Transient Photoluminescence Microscopy. <i>Advanced Optical Materials</i> , 2021, 9, 2001875.	7.3	15
34	Light emission from perovskite materials. <i>APL Materials</i> , 2020, 8, 070401.	5.1	12
35	Halide Mixing Inhibits Exciton Transport in Two-dimensional Perovskites Despite Phase Purity. <i>ACS Energy Letters</i> , 2022, 7, 358-365.	17.4	12
36	Passive frequency conversion of ultraviolet images into the visible using perovskite nanocrystals. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 054001.	2.2	4

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37	Lead Halide Perovskites Unlock Thin Film Upconversion. <i>Matter</i> , 2019, 1, 553-555.	10.0	3
38	Efficient blue perovskite LEDs from quantum confined structures. <i>Science China Chemistry</i> , 2020, 63, 3-4.	8.2	1
39	Influence of oxygen on defect densities in nanocrystalline Si. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2071-2073.	3.1	0