

Julien Gorenflot

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

818
citations

623734

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794594

19
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22
all docs

22
docs citations

22
times ranked

1024
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. <i>Nature Materials</i> , 2021, 20, 378-384.	27.5	257
2	The Energy Level Conundrum of Organic Semiconductors in Solar Cells. <i>Advanced Materials</i> , 2022, 34, .	21.0	72
3	Nongeminate recombination in neat P3HT and P3HT:PCBM blend films. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	58
4	Triphenylamine-Based Push-Pull C ₆₀ Dyad As Photoactive Molecular Material for Single-Component Organic Solar Cells: Synthesis, Characterizations, and Photophysical Properties. <i>Chemistry of Materials</i> , 2018, 30, 3474-3485.	6.7	58
5	Thermal annealing reduces geminate recombination in TQ1:N2200 all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7428-7438.	10.3	45
6	Mixed Domains Enhance Charge Generation and Extraction in Bulk Heterojunction Solar Cells with Small-Molecule Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1702941.	19.5	43
7	Understanding the Charge Transfer State and Energy Loss Trade-offs in Non-fullerene-Based Organic Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 3408-3416.	17.4	40
8	Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2102363.	19.5	38
9	Impact of Fullerene on the Photophysics of Ternary Small Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901443.	19.5	37
10	From Recombination Dynamics to Device Performance: Quantifying the Efficiency of Exciton Dissociation, Charge Separation, and Extraction in Bulk Heterojunction Solar Cells with Fluorine-Substituted Polymer Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1701678.	19.5	33
11	Charge Photogeneration in Non-Fullerene Organic Solar Cells: Influence of Excess Energy and Electrostatic Interactions. <i>Advanced Functional Materials</i> , 2021, 31, 2007479.	14.9	31
12	Absence of Postnanosecond Charge Carrier Relaxation in Poly(3-hexylthiophene)/Fullerene Blends. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1368-1371.	4.6	30
13	Buildup of Triplet-State Population in Operating TQ1:PC ₇₁ BM Devices Does Not Limit Their Performance. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2838-2845.	4.6	30
14	Charge and Triplet Exciton Generation in Neat PC ₇₀ BM Films and Hybrid CuSCN:PC ₇₀ BM Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1802476.	19.5	20
15	Direct and Energy-Transfer-Mediated Charge-Transfer State Formation and Recombination in Triangulene-Spacer-Peryleneimide Multichromophores: Lessons for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16602-16613.	3.1	11
16	Quantification of Photophysical Processes in All-Polymer Bulk Heterojunction Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000181.	5.8	8
17	Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells (Adv. Energy Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	19.5	2
18	Effect of Quencher, Geometry, and Light Outcoupling on the Determination of Exciton Diffusion Length in Nonfullerene Acceptors. <i>Solar Rrl</i> , 2022, 6, .	5.8	2

#	ARTICLE	IF	CITATIONS
19	Ultrafast Energy Transfer Triggers Ionization Energy Offset Dependence of Quantum Efficiency in Low-bandgap Non-fullerene Acceptor Solar Cells. , 0, , .		0
20	Quantifying the Yield of Photophysical Processes in All-Polymer Bulk Heterojunction Solar Cells. , 0, , .		0
21	Role of Energy Transfer and Ionization Energy Offset in NFA-based Ternary Organic Solar Cells: Implications to Design Rules. , 0, , .		0