

Masoud Ghasemi

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

2,136
citations

516710

16
h-index

888059

17
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19
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19
docs citations

19
times ranked

2161
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. <i>Nature Materials</i> , 2018, 17, 253-260.	27.5	556
2	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. <i>Journal of the American Chemical Society</i> , 2017, 139, 5085-5094.	13.7	303
3	A molecular interactionâ€‘diffusion framework for predicting organic solar cell stability. <i>Nature Materials</i> , 2021, 20, 525-532.	27.5	212
4	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , 2019, 3, 443-458.	24.0	183
5	Delineation of Thermodynamic and Kinetic Factors that Control Stability in Non-fullerene Organic Solar Cells. <i>Joule</i> , 2019, 3, 1328-1348.	24.0	143
6	Rational Strategy to Stabilize an Unstable Highâ€‘Efficiency Binary Nonfullerene Organic Solar Cells with a Third Component. <i>Advanced Energy Materials</i> , 2019, 9, 1900376.	19.5	132
7	Precise Manipulation of Multilength Scale Morphology and Its Influence on Ecoâ€‘Friendly Printed Allâ€‘Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1702016.	14.9	99
8	High Performance Organic Solar Cells Processed by Blade Coating in Air from a Benign Food Additive Solution. <i>Chemistry of Materials</i> , 2016, 28, 7451-7458.	6.7	91
9	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604603.	21.0	87
10	Highly Efficient, Stable, and Ductile Ternary Nonfullerene Organic Solar Cells from a Twoâ€‘Donor Polymer Blend. <i>Advanced Materials</i> , 2019, 31, e1808279.	21.0	79
11	The Role of Demixing and Crystallization Kinetics on the Stability of Nonâ€‘Fullerene Organic Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2005348.	21.0	74
12	Strong polymer molecular weight-dependent material interactions: impact on the formation of the polymer/fullerene bulk heterojunction morphology. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13176-13188.	10.3	49
13	The Critical Impact of Material and Process Compatibility on the Active Layer Morphology and Performance of Organic Ternary Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1802293.	19.5	35
14	Environmentally-friendly solvent processed fullerene-free organic solar cells enabled by screening halogen-free solvent additives. <i>Science China Materials</i> , 2017, 60, 697-706.	6.3	33
15	Competition between Exceptionally Longâ€‘Range Alkyl Sidechain Ordering and Backbone Ordering in Semiconducting Polymers and Its Impact on Electronic and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2019, 29, 1806977.	14.9	31
16	The Critical Role of Materialsâ€‘TM Interaction in Realizing Organic Field-Effect Transistors Via High-Dilution Blending with Insulating Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26239-26249.	8.0	22
17	Upper and Apparent Lower Critical Solution Temperature Branches in the Phase Diagram of Polymer:Small Molecule Semiconducting Systems. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10845-10853.	4.6	7
18	Competition between exceptionally long-range alkyl sidechain ordering and backbone ordering in semiconducting polymers and its impact on electronic and optoelectronic properties. <i>Advanced Functional Materials</i> , 2018, 29, .	14.9	0