

Hongbo Wu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,421
citations

567281

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713466

21
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docs citations

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times ranked

1157
citing authors

#	ARTICLE	IF	CITATIONS
1	A Well-Mixed Phase Formed by Two Compatible Non-Fullerene Acceptors Enables Ternary Organic Solar Cells with Efficiency over 18.6%. <i>Advanced Materials</i> , 2021, 33, e2101733.	21.0	354
2	Solution-Processed Organic Solar Cells with High Open-Circuit Voltage of 1.3 V and Low Non-Radiative Voltage Loss of 0.16 V. <i>Advanced Materials</i> , 2020, 32, e2002122.	21.0	168
3	Hot Hydrocarbon-Solvent Slot-Die Coating Enables High-Efficiency Organic Solar Cells with Temperature-Dependent Aggregation Behavior. <i>Advanced Materials</i> , 2020, 32, e2002302.	21.0	139
4	A facile strategy for third-component selection in non-fullerene acceptor-based ternary organic solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 5009-5016.	30.8	119
5	High-efficiency organic solar cells with low voltage loss induced by solvent additive strategy. <i>Matter</i> , 2021, 4, 2542-2552.	10.0	118
6	Kinetics Manipulation Enables High-Performance Thick Ternary Organic Solar Cells via R2R-Compatible Slot-Die Coating. <i>Advanced Materials</i> , 2022, 34, e2105114.	21.0	72
7	Balancing the pre-aggregation and crystallization kinetics enables high efficiency slot-die coated organic solar cells with reduced non-radiative recombination losses. <i>Energy and Environmental Science</i> , 2020, 13, 2467-2479.	30.8	69
8	Energetics and Energy Loss in 2D Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000687.	19.5	68
9	Increasing donor-acceptor spacing for reduced voltage loss in organic solar cells. <i>Nature Communications</i> , 2021, 12, 6679.	12.8	56
10	Crystalline Cooperativity of Donor and Acceptor Segments in Double-Cable Conjugated Polymers toward Efficient Single-Component Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15532-15540.	13.8	53
11	Improving quantum efficiency in organic solar cells with a small energetic driving force. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19770-19777.	10.3	39
12	Additive-Induced Synergies of Defect Passivation and Energetic Modification toward Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101394.	19.5	36
13	High-efficiency ternary nonfullerene organic solar cells with record long-term thermal stability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22907-22917.	10.3	27
14	The first application of isoindigo-based polymers in non-fullerene organic solar cells. <i>Science China Chemistry</i> , 2020, 63, 1262-1271.	8.2	20
15	Small Band gap Boron Dipyromethene-Based Conjugated Polymers for All-Polymer Solar Cells: The Effect of Methyl Units. <i>Macromolecules</i> , 2019, 52, 8367-8373.	4.8	18
16	Different Morphology Dependence for Efficient Indoor Organic Photovoltaics: The Role of the Leakage Current and Recombination Losses. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44604-44614.	8.0	13
17	Tuning Acceptor Composition in Ternary Organic Photovoltaics—Impact of Domain Purity on Non-Radiative Voltage Losses. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	13
18	Designing High-Performance Nonfused Ring Electron Acceptors <i>via</i> Synergistically Adjusting Side Chains and Electron-Withdrawing End-Groups. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21287-21294.	8.0	12

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19	Crystalline Cooperativity of Donor and Acceptor Segments in Double-Cable Conjugated Polymers toward Efficient Single-Component Organic Solar Cells. <i>Angewandte Chemie</i> , 2019, 131, 15678-15686.	2.0	11
20	Strengthening the Intermolecular Interaction of Prototypical Semicrystalline Conjugated Polymer Enables Improved Photocurrent Generation at the Heterojunction. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100871.	3.9	9
21	Interfacial energetic disorder induced by the molecular packing structure at conjugated polymer-based donor/acceptor heterojunctions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13761-13769.	5.5	4
22	Effective Strategy to Improve Contact Selectivity in Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 0, , .	5.1	1