Hongbo Wu

List of Publications by Year
in descending order

22	1,421	567281 15	713466 21
papers	citations	h-index	g-index

23	23	23	1157
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetics Manipulation Enables Highâ€Performance Thick Ternary Organic Solar Cells via R2Râ€Compatible Slotâ€Die Coating. Advanced Materials, 2022, 34, e2105114.	21.0	72
2	Strengthening the Intermolecular Interaction of Prototypical Semicrystalline Conjugated Polymer Enables Improved Photocurrent Generation at the Heterojunction. Macromolecular Rapid Communications, 2022, 43, e2100871.	3.9	9
3	Tuning Acceptor Composition in Ternary Organic Photovoltaicsâ€“Impact of Domain Purity on Nonâ€Radiative Voltage Losses. Advanced Energy Materials, 2022, 12, .	19.5	13
4	Designing High-Performance Nonfused Ring Electron Acceptors via Synergistically Adjusting Side Chains and Electron-Withdrawing End-Groups. ACS Applied Materials & Interfaces, 2022, 14, 21287-21294.	8.0	12
5	A facile strategy for third-component selection in non-fullerene acceptor-based ternary organic solar cells. Energy and Environmental Science, 2021, 14, 5009-5016.	30.8	119
6	Additiveâ€Induced Synergies of Defect Passivation and Energetic Modification toward Highly Efficient Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2101394.	19.5	36
7	High-efficiency organic solar cells with low voltage loss induced by solvent additive strategy. Matter, 2021, 4, 2542-2552.	10.0	118
8	A Wellâ€Mixed Phase Formed by Two Compatible Nonâ€Fullerene Acceptors Enables Ternary Organic Solar Cells with Efficiency over 18.6%. Advanced Materials, 2021, 33, e2101733.	21.0	354
9	Different Morphology Dependence for Efficient Indoor Organic Photovoltaics: The Role of the Leakage Current and Recombination Losses. ACS Applied Materials & Interfaces, 2021, 13, 44604-44614.	8.0	13
10	Interfacial energetic disorder induced by the molecular packing structure at conjugated polymer-based donor/acceptor heterojunctions. Journal of Materials Chemistry C, 2021, 9, 13761-13769.	5.5	4
11	Improving quantum efficiency in organic solar cells with a small energetic driving force. Journal of Materials Chemistry A, 2021, 9, 19770-19777.	10.3	39
12	Increasing donor-acceptor spacing for reduced voltage loss in organic solar cells. Nature Communications, 2021, 12, 6679.	12.8	56
13	High-efficiency ternary nonfullerene organic solar cells with record long-term thermal stability. Journal of Materials Chemistry A, 2020, 8, 22907-22917.	10.3	27
14	Solutionâ€Processed Organic Solar Cells with High Openâ€Circuit Voltage of 1.3 V and Low Nonâ€Radiative Voltage Loss of 0.16 V. Advanced Materials, 2020, 32, e2002122.	21.0	168
15	Hot Hydrocarbonâ€Solvent Slotâ€Die Coating Enables Highâ€Efficiency Organic Solar Cells with Temperatureâ€Dependent Aggregation Behavior. Advanced Materials, 2020, 32, e2002302.	21.0	139
16	Energetics and Energy Loss in 2D Ruddlesdenâ€“Popper Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 2000687.	19.5	68
17	Balancing the pre-aggregation and crystallization kinetics enables high efficiency slot-die coated organic solar cells with reduced non-radiative recombination losses. Energy and Environmental Science, 2020, 13, 2467-2479.	30.8	69
18	The first application of isoindigo-based polymers in non-fullerene organic solar cells. Science China Chemistry, 2020, 63, 1262-1271.	8.2	20

#	Article	IF	Citations
19	Crystalline Cooperativity of Donor and Acceptor Segments in Doubleâ€Cable Conjugated Polymers toward Efficient Singleâ€Component Organic Solar Cells. Angewandte Chemie, 2019, 131, 15678-15686.	2.0	11
20	Crystalline Cooperativity of Donor and Acceptor Segments in Doubleâ€Cable Conjugated Polymers toward Efficient Singleâ€Component Organic Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 15532-15540.	13.8	53
21	Small Band gap Boron Dipyrromethene-Based Conjugated Polymers for All-Polymer Solar Cells: The Effect of Methyl Units. Macromolecules, 2019, 52, 8367-8373.	4.8	18
22	Effective Strategy to Improve Contact Selectivity in Organic Solar Cells. ACS Applied Energy Materials, 0, , .	5.1	1