

Wanzhu Cai

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

747
citations

687363

13
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

1437
citing authors

#	ARTICLE	IF	CITATIONS
1	Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency. <i>Advanced Materials</i> , 2018, 30, e1706363.	21.0	172
2	Toward green solvent processable photovoltaic materials for polymer solar cells: the role of highly polar pendant groups in charge carrier transport and photovoltaic behavior. <i>Energy and Environmental Science</i> , 2013, 6, 3022.	30.8	158
3	Relating open-circuit voltage losses to the active layer morphology and contact selectivity in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12574-12581.	10.3	65
4	Asymmetric photocurrent extraction in semitransparent laminated flexible organic solar cells. <i>Npj Flexible Electronics</i> , 2018, 2, .	10.7	53
5	Donor-Acceptor Type Polymer Bearing Carbazole Side Chain for Efficient Dopant-Free Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, 2102697.	19.5	51
6	Energy-effectively printed all-polymer solar cells exceeding 8.61% efficiency. <i>Nano Energy</i> , 2018, 46, 428-435.	16.0	45
7	Self-doped conjugated polyelectrolyte with tuneable work function for effective hole transport in polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15670-15675.	10.3	34
8	A Highly Crystalline Wide-Band-Gap Conjugated Polymer toward High-Performance As-Cast Nonfullerene Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36061-36069.	8.0	34
9	Roll-to-Roll Slot-Die-Printed Polymer Solar Cells by Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22485-22494.	8.0	27
10	DNA Based Hybrid Material for Interface Engineering in Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9579-9586.	8.0	19
11	The contraction of PEDOT films formed on a macromolecular liquid-like surface. <i>Journal of Materials Chemistry C</i> , 2018, 6, 654-660.	5.5	19
12	Dedoping-induced interfacial instability of poly(ethylene imine)s-treated PEDOT:PSS as a low-work-function electrode. <i>Journal of Materials Chemistry C</i> , 2020, 8, 328-336.	5.5	19
13	Manipulate Micrometer Surface and Nanometer Bulk Phase Separation Structures in the Active Layer of Organic Solar Cells via Synergy of Ultrasonic and High-Pressure Gas Spraying. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10777-10784.	8.0	17
14	Macroscopic Domains within an Oriented TQ1 Film Visualized Using 2D Polarization Imaging. <i>ACS Omega</i> , 2017, 2, 32-40.	3.5	11
15	Flexible ITO-free sky-blue polymer light-emitting diodes and printed polymer solar cells based on AgNW/PI transparent conductive electrode. <i>Flexible and Printed Electronics</i> , 2020, 5, 014003.	2.7	11
16	Solvent-Vapor-Annealing-Induced Interfacial Self-Assembly for Simplified One-Step Spraying Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 7316-7326.	5.1	5
17	Environmentally Responsive Intelligent Dynamic Water Collector. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2202-2210.	8.0	4
18	Effect of anode interfacial modification on the performance of laminated flexible ITO-free organic solar cells. <i>Energy Science and Engineering</i> , 2021, 9, 502-508.	4.0	3