

Yong Cui

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

8,727

citations

36

h-index

74

g-index

74

ext. papers

11,131

ext. citations

14.4

avg, IF

6.62

L-index

#	Paper	IF	Citations
69	Influence of Large Steric Hinderance Substituent Position on Conformation and Charge Transfer Process for Non-Fused Ring Acceptors.. <i>Small Methods</i> , 2022 , e2200007	12.8	1
68	Design of Near-Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for High-Performance Semitransparent Ternary Organic Solar Cells.. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	13
67	High-Performance Non-Fused Wide Bandgap Acceptor for Versatile Photovoltaic Applications. <i>Advanced Materials</i> , 2021 , e2108090	24	13
66	A Universal Nonhalogenated Polymer Donor for High-Performance Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2021 , e2105803	24	17
65	Multi-Functional Solid Additive Induced Favorable Vertical Phase Separation and Ordered Molecular Packing for Highly Efficient Layer-by-Layer Organic Solar Cells. <i>Small</i> , 2021 , 17, e2103497	11	14
64	Thermoplastic Elastomer Tunes Phase Structure and Promotes Stretchability of High-Efficiency Organic Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2106732	24	32
63	A New Conjugated Polymer that Enables the Integration of Photovoltaic and Light-Emitting Functions in One Device. <i>Advanced Materials</i> , 2021 , 33, e2101090	24	58
62	Suppressing Energetic Disorder Enables Efficient Indoor Organic Photovoltaic Cells With a PTV Derivative. <i>Frontiers in Chemistry</i> , 2021 , 9, 684241	5	4
61	Elucidating End-Group Modifications of Carbazole-Based Nonfullerene Acceptors in Indoor Applications for Achieving a PCE of over 20. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26247-26235	9.5	3
60	Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Cross-Linkable Fullerene Derivative. <i>Small</i> , 2021 , 17, e2101133	11	10
59	Accurate photovoltaic measurement of organic cells for indoor applications. <i>Joule</i> , 2021 , 5, 1016-1023	27.8	16
58	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15988-15994	16.4	17
57	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie</i> , 2021 , 133, 16124-16130	3.6	3
56	Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 893-900	7.8	13
55	Optimizing polymer aggregation and blend morphology for boosting the photovoltaic performance of polymer solar cells via a random terpolymerization strategy. <i>Journal of Energy Chemistry</i> , 2021 , 59, 30-37	12	10
54	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2010535	15.6	26
53	A Thiadiazole-Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. <i>Advanced Energy Materials</i> , 2021 , 11, 2101705	21.8	51

52	Single-Junction Organic Photovoltaic Cell with 19% Efficiency. <i>Advanced Materials</i> , 2021 , 33, e2102420	24	302
51	Reduced non-radiative charge recombination enables organic photovoltaic cell approaching 19% efficiency. <i>Joule</i> , 2021 , 5, 2408-2419	27.8	144
50	18.5% Efficiency Organic Solar Cells with a Hybrid Planar/Bulk Heterojunction. <i>Advanced Materials</i> , 2021 , 33, e2103091	24	37
49	Organic photovoltaic cells for low light applications offering new scope and orientation. <i>Organic Electronics</i> , 2020 , 85, 105798	3.5	17
48	Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7691-7698	3.8	11
47	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , 2020 , 63, 1142-1150	7.1	99
46	Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1908205	24	896
45	Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. <i>Energy and Environmental Science</i> , 2020 , 13, 635-645	35.4	462
44	Organic photovoltaic cell with 17% efficiency and superior processability. <i>National Science Review</i> , 2020 , 7, 1239-1246	10.8	318
43	Recent advances in high-efficiency organic solar cells fabricated by eco-compatible solvents at relatively large-area scale. <i>APL Materials</i> , 2020 , 8, 120901	5.7	20
42	Organic Photovoltaic Cells for Indoor Applications: Opportunities and Challenges. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38815-38828	9.5	58
41	1 cm Organic Photovoltaic Cells for Indoor Application with over 20% Efficiency. <i>Advanced Materials</i> , 2019 , 31, e1904512	24	87
40	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. <i>Nature Communications</i> , 2019 , 10, 2515	17.4	1093
39	14.7% Efficiency Organic Photovoltaic Cells Enabled by Active Materials with a Large Electrostatic Potential Difference. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7743-7750	16.4	244
38	Highly efficient and stable 2D-3D perovskite solar cells fabricated by interfacial modification. <i>Nanotechnology</i> , 2019 , 30, 275202	3.4	22
37	Eco-Compatible Solvent-Processed Organic Photovoltaic Cells with Over 16% Efficiency. <i>Advanced Materials</i> , 2019 , 31, e1903441	24	318
36	Wide-gap non-fullerene acceptor enabling high-performance organic photovoltaic cells for indoor applications. <i>Nature Energy</i> , 2019 , 4, 768-775	62.3	256
35	Improved Charge Transport and Reduced Nonradiative Energy Loss Enable Over 16% Efficiency in Ternary Polymer Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1902302	24	311

34	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. <i>Advanced Materials</i> , 2019 , 31, e1808356	24	314
33	Critical Role of Molecular Electrostatic Potential on Charge Generation in Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 491-494	4.9	125
32	The Critical Role of Anode Work Function in Non-Fullerene Organic Solar Cells Unveiled by Counterion-Size-Controlled Self-Doping Conjugated Polymers. <i>Chemistry of Materials</i> , 2018 , 30, 1078-1084	8.6	32
31	The crucial role of intermolecular interactions in ADA-type electron acceptors and their effective modulation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2664-2670	13	25
30	Modulating Molecular Orientation Enables Efficient Nonfullerene Small-Molecule Organic Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 2129-2134	9.6	127
29	Optical Gaps of Organic Solar Cells as a Reference for Comparing Voltage Losses. <i>Advanced Energy Materials</i> , 2018 , 8, 1801352	21.8	211
28	Toward Efficient Polymer Solar Cells Processed by a Solution-Processed Layer-By-Layer Approach. <i>Advanced Materials</i> , 2018 , 30, e1802499	24	83
27	Over 100-nm-Thick MoOx Films with Superior Hole Collection and Transport Properties for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800698	21.8	25
26	Enhancing the Performance of the Half Tin and Half Lead Perovskite Solar Cells by Suppression of the Bulk and Interfacial Charge Recombination. <i>Advanced Materials</i> , 2018 , 30, e1803703	24	49
25	Solar Cells: Enhancing the Performance of the Half Tin and Half Lead Perovskite Solar Cells by Suppression of the Bulk and Interfacial Charge Recombination (Adv. Mater. 35/2018). <i>Advanced Materials</i> , 2018 , 30, 1870263	24	
24	Design and application of volatilizable solid additives in non-fullerene organic solar cells. <i>Nature Communications</i> , 2018 , 9, 4645	17.4	130
23	Design, Synthesis, and Photovoltaic Characterization of a Small Molecular Acceptor with an Ultra-Narrow Band Gap. <i>Angewandte Chemie</i> , 2017 , 129, 3091-3095	3.6	43
22	Design, Synthesis, and Photovoltaic Characterization of a Small Molecular Acceptor with an Ultra-Narrow Band Gap. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3045-3049	16.4	590
21	Investigation of Conjugated Polymers Based on Naphtho[2,3-c]thiophene-4,9-dione in Fullerene-Based and Fullerene-Free Polymer Solar Cells. <i>Macromolecules</i> , 2017 , 50, 1453-1462	5.5	27
20	Fine-Tuned Photoactive and Interconnection Layers for Achieving over 13% Efficiency in a Fullerene-Free Tandem Organic Solar Cell. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7302-7309	16.4	399
19	Achieving 12.8% Efficiency by Simultaneously Improving Open-Circuit Voltage and Short-Circuit Current Density in Tandem Organic Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1606340	24	91
18	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Open-Circuit Voltage. <i>Advanced Materials</i> , 2017 , 29, 1700254	24	314
17	High-performance fullerene-free polymer solar cells with solution-processed conjugated polymers as anode interfacial layer. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 219-229	3.5	33

16	Efficient Semitransparent Organic Solar Cells with Tunable Color enabled by an Ultralow-Bandgap Nonfullerene Acceptor. <i>Advanced Materials</i> , 2017 , 29, 1703080	24	276
15	Design and Synthesis of a Low Bandgap Small Molecule Acceptor for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 8283-8287	24	373
14	A Novel pH Neutral Self-Doped Polymer for Anode Interfacial Layer in Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2016 , 49, 8126-8133	5.5	49
13	PBDT-TSR: a highly efficient conjugated polymer for polymer solar cells with a regioregular structure. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1708-1713	13	68
12	Effectively Improving Extinction Coefficient of Benzodithiophene and Benzodithiophenedione-based Photovoltaic Polymer by Grafting Alkylthio Functional Groups. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2650-2655	4.5	10
11	The Importance of End Groups for Solution-Processed Small-Molecule Bulk-Heterojunction Photovoltaic Cells. <i>ChemSusChem</i> , 2016 , 9, 973-80	8.3	4
10	Optimization of side chains in alkylthiophene-substituted benzo[1,2-b:4,5-b']dithiophene-based photovoltaic polymers. <i>Polymer Chemistry</i> , 2015 , 6, 2752-2760	4.9	33
9	Highly Efficient Photovoltaic Polymers Based on Benzodithiophene and Quinoxaline with Deeper HOMO Levels. <i>Macromolecules</i> , 2015 , 48, 5172-5178	5.5	96
8	Molecular design toward efficient polymer solar cells processed by green solvents. <i>Polymer Chemistry</i> , 2015 , 6, 4089-4095	4.9	40
7	Toward efficient non-fullerene polymer solar cells: Selection of donor polymers. <i>Organic Electronics</i> , 2015 , 17, 295-303	3.5	40
6	Investigations of the Conjugated Polymers Based on Dithienogermole (DTG) Units for Photovoltaic Applications. <i>Macromolecules</i> , 2014 , 47, 5558-5565	5.5	30
5	Controlled Synthesis of 2-Acetyl-6-carbethoxypyridine and 2,6-Diacetylpyridine from 2,6-Dimethylpyridine. <i>Synthetic Communications</i> , 2005 , 35, 2317-2324	1.7	15
4	Bimodal polyethylene promoted by novel nickel complex. <i>Polymer International</i> , 2004 , 53, 2155-2161	3.3	23
3	SYNTHESES, CRYSTAL STRUCTURES AND ELECTRONIC SPECTRA OF MIXED-LIGAND ZINC(II) COMPLEXES WITH DIIMINES AND DITHIOLATES. <i>Journal of Coordination Chemistry</i> , 2000 , 49, 201-209	1.6	6
2	Preparation, Structure and Properties of the One-Dimensional Polymeric Complex Na ₂ [AlW ₃ O ₄ (O ₂ Ce _t) ₈] ₂ . <i>Journal of Coordination Chemistry</i> , 2000 , 51, 83-92	1.6	
1	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. <i>Energy and Environmental Science</i> ,	35.4	39