

Yong Cui

List of Publications by Year in descending order

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times ranked

6003
citing authors

#	ARTICLE	IF	CITATIONS
1	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. <i>Nature Communications</i> , 2019, 10, 2515.	5.8	1,431
2	Single-junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020, 32, e1908205.	11.1	1,407
3	Single-junction Organic Photovoltaic Cell with 19% Efficiency. <i>Advanced Materials</i> , 2021, 33, e2102420.	11.1	1,072
4	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.	7.2	711
5	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.	15.6	636
6	Eco-compatible Solvent-processed Organic Photovoltaic Cells with Over 16% Efficiency. <i>Advanced Materials</i> , 2019, 31, e1903441.	11.1	445
7	Organic photovoltaic cell with 17% efficiency and superior processability. <i>National Science Review</i> , 2020, 7, 1239-1246.	4.6	443
8	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.	6.6	427
9	Design and Synthesis of a Low Bandgap Small Molecule Acceptor for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2016, 28, 8283-8287.	11.1	421
10	Reduced non-radiative charge recombination enables organic photovoltaic cell approaching 19% efficiency. <i>Joule</i> , 2021, 5, 2408-2419.	11.7	419
11	Wide-gap non-fullerene acceptor enabling high-performance organic photovoltaic cells for indoor applications. <i>Nature Energy</i> , 2019, 4, 768-775.	19.8	407
12	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. <i>Advanced Materials</i> , 2019, 31, e1808356.	11.1	388
13	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.	6.6	379
14	Improved Charge Transport and Reduced Nonradiative Energy Loss Enable Over 16% Efficiency in Ternary Polymer Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1902302.	11.1	364
15	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Open-circuit Voltage. <i>Advanced Materials</i> , 2017, 29, 1700254.	11.1	363
16	Efficient Semitransparent Organic Solar Cells with Tunable Color enabled by an Ultralow-bandgap Nonfullerene Acceptor. <i>Advanced Materials</i> , 2017, 29, 1703080.	11.1	325
17	Optical Gaps of Organic Solar Cells as a Reference for Comparing Voltage Losses. <i>Advanced Energy Materials</i> , 2018, 8, 1801352.	10.2	319
18	Design and application of volatilizable solid additives in non-fullerene organic solar cells. <i>Nature Communications</i> , 2018, 9, 4645.	5.8	205

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19	Critical Role of Molecular Electrostatic Potential on Charge Generation in Organic Solar Cells. Chinese Journal of Chemistry, 2018, 36, 491-494.	2.6	163
20	Modulating Molecular Orientation Enables Efficient Nonfullerene Small-Molecule Organic Solar Cells. Chemistry of Materials, 2018, 30, 2129-2134.	3.2	157
21	1 cm ² Organic Photovoltaic Cells for Indoor Application with over 20% Efficiency. Advanced Materials, 2019, 31, e1904512.	11.1	140
22	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. Science China Materials, 2020, 63, 1142-1150.	3.5	140
23	18.5% Efficiency Organic Solar Cells with a Hybrid Planar/Bulk Heterojunction. Advanced Materials, 2021, 33, e2103091.	11.1	136
24	A New Conjugated Polymer that Enables the Integration of Photovoltaic and Light-Emitting Functions in One Device. Advanced Materials, 2021, 33, e2101090.	11.1	129
25	Organic Photovoltaic Cells for Indoor Applications: Opportunities and Challenges. ACS Applied Materials & Interfaces, 2020, 12, 38815-38828.	4.0	126
26	A Thiadiazole-Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. Advanced Energy Materials, 2021, 11, 2101705.	10.2	125
27	Toward Efficient Polymer Solar Cells Processed by a Solution-Processed Layer-by-Layer Approach. Advanced Materials, 2018, 30, e1802499.	11.1	116
28	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. Energy and Environmental Science, 2021, 14, 5903-5910.	15.6	116
29	Highly Efficient Photovoltaic Polymers Based on Benzodithiophene and Quinoxaline with Deeper HOMO Levels. Macromolecules, 2015, 48, 5172-5178.	2.2	104
30	Thermoplastic Elastomer Tunes Phase Structure and Promotes Stretchability of High-Efficiency Organic Solar Cells. Advanced Materials, 2021, 33, e2106732.	11.1	101
31	Achieving 12.8% Efficiency by Simultaneously Improving Open-Circuit Voltage and Short-Circuit Current Density in Tandem Organic Solar Cells. Advanced Materials, 2017, 29, 1606340.	11.1	100
32	Design of Near-Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for High-Performance Semitransparent Ternary Organic Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	85
33	PBDT-TSR: a highly efficient conjugated polymer for polymer solar cells with a regioregular structure. Journal of Materials Chemistry A, 2016, 4, 1708-1713.	5.2	75
34	A High-Performance Nonfused Wide-Bandgap Acceptor for Versatile Photovoltaic Applications. Advanced Materials, 2022, 34, e2108090.	11.1	71
35	A Novel pH Neutral Self-Doped Polymer for Anode Interfacial Layer in Efficient Polymer Solar Cells. Macromolecules, 2016, 49, 8126-8133.	2.2	69
36	Enhancing the Performance of the Half Tin and Half Lead Perovskite Solar Cells by Suppression of the Bulk and Interfacial Charge Recombination. Advanced Materials, 2018, 30, e1803703.	11.1	65

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37	Design, Synthesis, and Photovoltaic Characterization of a Small Molecular Acceptor with an Ultra-Narrow Band Gap. <i>Angewandte Chemie</i> , 2017, 129, 3091-3095.	1.6	61
38	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15988-15994.	7.2	60
39	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2010535.	7.8	55
40	A Universal Nonhalogenated Polymer Donor for High-Performance Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2022, 34, e2105803.	11.1	53
41	Accurate photovoltaic measurement of organic cells for indoor applications. <i>Joule</i> , 2021, 5, 1016-1023.	11.7	52
42	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.	5.2	49
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, .	2.2	45
44	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.	3.2	44
45	Toward efficient non-fullerene polymer solar cells: Selection of donor polymers. <i>Organic Electronics</i> , 2015, 17, 295-303.	1.4	41
46	Molecular design toward efficient polymer solar cells processed by green solvents. <i>Polymer Chemistry</i> , 2015, 6, 4089-4095.	1.9	41
47	Highly efficient and stable 2D-3D perovskite solar cells fabricated by interfacial modification. <i>Nanotechnology</i> , 2019, 30, 275202.	1.3	40
48	Over 100-nm-Thick MoO _x Films with Superior Hole Collection and Transport Properties for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800698.	10.2	38
49	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.	1.9	37
50	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.	2.0	35
51	Investigations of the Conjugated Polymers Based on Dithienogermole (DTG) Units for Photovoltaic Applications. <i>Macromolecules</i> , 2014, 47, 5558-5565.	2.2	34
52	Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Cross-Linkable Fullerene Derivative. <i>Small</i> , 2021, 17, e2101133.	5.2	34
53	Low-cost and high-performance poly(thienylene vinylene) derivative donor for efficient versatile organic photovoltaic cells. <i>Nano Energy</i> , 2022, 100, 107463.	8.2	33
54	Investigation of Conjugated Polymers Based on Naphtho[2,3- <i>c</i>]thiophene-4,9-dione in Fullerene-Based and Fullerene-Free Polymer Solar Cells. <i>Macromolecules</i> , 2017, 50, 1453-1462.	2.2	32

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55	Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 893-900.	3.2	32
56	The crucial role of intermolecular π - π interactions in A-type electron acceptors and their effective modulation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2664-2670.	5.2	26
57	Organic photovoltaic cells for low light applications offering new scope and orientation. <i>Organic Electronics</i> , 2020, 85, 105798.	1.4	26
58	Bimodal polyethylene promoted by novel nickel complex. <i>Polymer International</i> , 2004, 53, 2155-2161.	1.6	24
59	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.	7.1	20
60	Influence of Large Steric Hinderance Substituent Position on Conformation and Charge Transfer Process for Non-Fused Ring Acceptors. <i>Small Methods</i> , 2022, 6, e2200007.	4.6	20
61	Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7691-7698.	1.5	18
62	100 cm ² Organic Photovoltaic Cells with 23% Efficiency under Indoor Illumination. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 979-988.	2.0	18
63	Controlled Synthesis of 2-Acetyl-6-carboxypyridine and 2,6-Diacetylpyridine from 2,6-Dimethylpyridine. <i>Synthetic Communications</i> , 2005, 35, 2317-2324.	1.1	17
64	Design of Near-Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for High-Performance Semitransparent Ternary Organic Solar Cells. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	15
65	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, 26247-26255.	4.0	14
66	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.	0.8	11
67	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.	1.7	11
68	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie</i> , 2021, 133, 16124-16130.	1.6	11
69	Suppressing Energetic Disorder Enables Efficient Indoor Organic Photovoltaic Cells With a PTV Derivative. <i>Frontiers in Chemistry</i> , 2021, 9, 684241.	1.8	9
70	The Importance of End Groups for Solution-Processed Small-Molecule Bulk-Heterojunction Photovoltaic Cells. <i>ChemSusChem</i> , 2016, 9, 973-980.	3.6	8
71	High efficiency and more functions bring a bright future for organic photovoltaic cells. <i>Science Bulletin</i> , 2022, 67, 1300-1303.	4.3	8
72	Preparation, Structure and Properties of the One-Dimensional Polymeric Complex Na ₂ [AlW ₃ O ₄ (O ₂ C ₂ H ₅) ₈] ₂ . <i>Journal of Coordination Chemistry</i> , 2000, 51, 83-92.	0.8	0

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73	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). Advanced Materials, 2018, 30, 1870263.	11.1	0