

Runnan Yu

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.

44
papers

4,317
citations

24
h-index

48
g-index

48
ext. papers

5,043
ext. citations

14.4
avg, IF

5.89
L-index

#	Paper	IF	Citations
44	Revival of Insulating Polyethylenimine by Creatively Carbonizing with Perylene into Highly Crystallized Carbon Dots as the Cathode Interlayer for High-Performance Organic Solar Cells.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	4
43	Improving charge transport and reducing non-radiative energy loss via a nonacyclic carbazole-based third component for over 18% efficiency polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7090-7098	13	3
42	Biuret Induced Tin-Anchoring and Crystallization-Regulating for Efficient Lead-Free Tin Halide Perovskite Light-Emitting Diodes.. <i>Small</i> , 2022 , e2200036	11	6
41	Crosslinkable and Chelatable Organic Ligand Enables Interfaces and Grains Collaborative Passivation for Efficient and Stable Perovskite Solar Cells.. <i>Small</i> , 2022 , e2201820	11	2
40	Highly efficient carbon dot-based room-temperature fluorescence β phosphorescence dual emitter. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 15577-15582	7.1	6
39	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
38	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
37	Achieving over 10 % Efficiency in Poly(3-hexylthiophene)-Based Organic Solar Cells via Solid Additives. <i>ChemSusChem</i> , 2021 , 14, 3607-3613	8.3	20
36	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
35	Efficient Organic Tandem Solar Cells Enabled by Solution-Processed Interconnection Layer and Fine-Tuned Active Layer. <i>Advanced Optical Materials</i> , 2021 , 9, 2101246	8.1	1
34	18.5% Efficiency Organic Solar Cells with a Hybrid Planar/Bulk Heterojunction. <i>Advanced Materials</i> , 2021 , 33, e2103091	24	37
33	Realization of high performance for PM6:Y6 based organic photovoltaic cells. <i>Journal of Energy Chemistry</i> , 2021 , 61, 29-46	12	27
32	β Diketone Coordination Strategy for Highly Efficient and Stable Pb-Sn Mixed Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021 , 11772-11778	6.4	5
31	Printable SnO ₂ cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. <i>Science China Chemistry</i> , 2020 , 63, 957-965	7.9	25
30	Diverse applications of MoO ₃ for high performance organic photovoltaics: fundamentals, processes and optimization strategies. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 978-1009	13	36
29	TCNQ as a volatilizable morphology modulator enables enhanced performance in non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 44-49	7.1	11
28	Crosslinkable metal chelate as the electron transport layer for efficient and stable inverted polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2995-3002	7.8	4

27	Ternary blend strategy in benzotriazole-based organic photovoltaics for indoor application. <i>Green Energy and Environment</i> , 2020 ,	5.7	10
26	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
25	Enhanced π - π Interactions of Nonfullerene Acceptors by Volatilizable Solid Additives in Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1900477	24	69
24	Eco-Compatible Solvent-Processed Organic Photovoltaic Cells with Over 16% Efficiency. <i>Advanced Materials</i> , 2019 , 31, e1903441	24	318
23	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
22	Investigating the Trade-Off between Device Performance and Energy Loss in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29124-29131	9.5	19
21	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
20	The crucial role of intermolecular π - π interactions in ADA-type electron acceptors and their effective modulation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2664-2670	13	25
19	Ternary Nonfullerene Polymer Solar Cells with 12.16% Efficiency by Introducing One Acceptor with Cascading Energy Level and Complementary Absorption. <i>Advanced Materials</i> , 2018 , 30, 1703005	24	156
18	Multi-component non-fullerene acceptors with tunable bandgap structures for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23644-23649	13	35
17	Design and application of volatilizable solid additives in non-fullerene organic solar cells. <i>Nature Communications</i> , 2018 , 9, 4645	17.4	130
16	Enhancing the Photovoltaic Performance of Nonfullerene Acceptors via Conjugated Rotatable End Groups. <i>Advanced Energy Materials</i> , 2018 , 8, 1802131	21.8	21
15	Over 14% Efficiency in Organic Solar Cells Enabled by Chlorinated Nonfullerene Small-Molecule Acceptors. <i>Advanced Materials</i> , 2018 , 30, e1800613	24	538
14	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
13	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
12	Two Well-Miscible Acceptors Work as One for Efficient Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1700437	24	140
11	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Open-Circuit Voltage. <i>Advanced Materials</i> , 2017 , 29, 1700254	24	314
10	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

9	Over 11% Efficiency in Tandem Polymer Solar Cells Featured by a Low-Band-Gap Polymer with Fine-Tuned Properties. <i>Advanced Materials</i> , 2016 , 28, 5133-8	24	133
8	A Wide Bandgap Polymer with Strong π -Interaction for Efficient Fullerene-Free Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1600742	21.8	74
7	Highly Efficient Fullerene-Free Polymer Solar Cells Fabricated with Polythiophene Derivative. <i>Advanced Materials</i> , 2016 , 28, 9416-9422	24	253
6	Coordination-Induced Defects Elimination of SnO ₂ Nanoparticles via a Small Electrolyte Molecule for High-Performance Inverted Organic Solar Cells. <i>Advanced Optical Materials</i> , 2102031	8.1	3
5	Recent Progress in Semitransparent Organic and Perovskite Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100731	1.6	2
4	Water-Induced Formation of β -MoO ₃ Microcrystals as Anode Buffer Layer for Highly Efficient Polymer Solar Cells. <i>Energy Technology</i> , 2100718	3.5	1
3	Layer-by-layered organic solar cells: Morphology optimizing strategies and processing techniques. <i>Aggregate</i> , e107	22.9	2
2	Recent advances of organometallic complexes in emerging photovoltaics. <i>Journal of Polymer Science</i> ,	2.4	0
1	Size-Controllable Metal Chelates as Both Light Scattering Centers and Electron Collection Layer for High-Performance Polymer Solar Cells. <i>CCS Chemistry</i> , 37-49	7.2	6