Jianhui Hou

List of Publications by Year
in descending order

447	70,943	435 131	677 254
papers	citations	h-index	g-index

453	453	453	19074
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Stable Organic Solar Cells Based on an Ultraviolet-Resistant Cathode Interfacial Layer. CCS Chemistry, 2022, 4, 938-948.	7.8	42
2	Heatingâ€induced aggregation control for efficient sequentialâ€cast organic solar cells. Aggregate, 2022, 3, e104.	9.9	10
3	Lowâ€cost and efficient organic solar cells based on polythiopheneâ€and poly(thiophene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	9.9	38
4	A Universal Nonhalogenated Polymer Donor for Highâ€Performance Organic Photovoltaic Cells. Advanced Materials, 2022, 34, e2105803.	21.0	53
5	Fluidic Manipulating of Printable Zinc Oxide for Flexible Organic Solar Cells. Advanced Materials, 2022, 34, e2106453.	21.0	62
6	Heavyâ€Atomâ€Free Roomâ€Temperature Phosphorescent Rylene Imide for Highâ€Performing Organic Photovoltaics. Advanced Science, 2022, 9, e2103975.	11.2	12
7	Non-fullerene acceptor pre-aggregates enable high efficiency pseudo-bulk heterojunction organic solar cells. Science China Chemistry, 2022, 65, 373-381.	8.2	20
8	A Highâ€Performance Nonfused Wideâ€Bandgap Acceptor for Versatile Photovoltaic Applications. Advanced Materials, 2022, 34, e2108090.	21.0	71
9	Delicate crystallinity control enables high-efficiency P3HT organic photovoltaic cells. Journal of Materials Chemistry A, 2022, 10, 3418-3429.	10.3	45
10	Tandem Organic Solar Cell with 20.2% Efficiency. Joule, 2022, 6, 171-184.	24.0	584
11	Design of Nearâ€Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for Highâ€Performance Semitransparent Ternary Organic Solar Cells. Angewandte Chemie, 2022, 134, .	2.0	15
12	Efficient interface modification via multi-site coordination for improved efficiency and stability in organic solar cells. Energy and Environmental Science, 2022, 15, 822-829.	30.8	49
13	Design of Nearâ€Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for Highâ€Performance Semitransparent Ternary Organic Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	13.8	85
14	Facile solution-processed molybdenum oxide as hole transporting material for efficient organic solar cell. Journal of Energy Chemistry, 2022, 69, 108-114.	12.9	8
15	An asymmetric wide-bandgap acceptor simultaneously enabling highly efficient single-junction and tandem organic solar cells. Energy and Environmental Science, 2022, 15, 1585-1593.	30.8	89
16	A New PEDOT Derivative for Efficient Organic Solar Cell with a Fill Factor of 0.80. Advanced Energy Materials, 2022, 12, .	19.5	52
17	Influence of Large Steric Hinderance Substituent Position on Conformation and Charge Transfer Process for Nonâ€Fused Ring Acceptors. Small Methods, 2022, 6, e2200007.	8.6	20
18	Highâ€Efficiency ITOâ€Free Organic Photovoltaics with Superior Flexibility and Upscalability. Advanced Materials, 2022, 34, e2200044.	21.0	41

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19	Terminal alkyl chain tuning of small molecule donor enables optimized morphology and efficient all-small-molecule organic solar cells. Dyes and Pigments, 2022, 200, 110147.	3.7	1
20	A Mixed-Ligand Strategy to Modulate P3HT Regioregularity for High-Efficiency Solar Cells. Macromolecules, 2022, 55, 3078-3086.	4.8	26
21	Terthiophene based non-fused electron acceptors for efficient organic solar cells. Organic Electronics, 2022, 105, 106512.	2.6	17
22	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	8.2	349
23	Mapping the energy level alignment at donor/acceptor interfaces in non-fullerene organic solar cells. Nature Communications, 2022, 13, 2046.	12.8	41
24	Benzo[1,2-b:4,5-bâ€²]dithiophene-Based Conjugated Polymers for Highly Efficient Organic Photovoltaics. Accounts of Materials Research, 2022, 3, 540-551.	11.7	19
25	High efficiency and more functions bring a bright future for organic photovoltaic cells. Science Bulletin, 2022, 67, 1300-1303.	9.0	8
26	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	8.2	157
27	Design of ultranarrow-bandgap acceptors for efficient organic photovoltaic cells and highly sensitive organic photodetectors. Journal of Energy Chemistry, 2022, 72, 388-394.	12.9	10
28	A Thiazole-Based Polymer Donor for Efficient Organic Solar Cells. Transactions of Tianjin University, 2022, 28, 398-405.	6.4	3
29	Low-cost and high-performance poly(thienylene vinylene) derivative donor for efficient versatile organic photovoltaic cells. Nano Energy, 2022, 100, 107463.	16.0	33
30	Doubleâ€Cable Conjugated Polymers with Pendent Nearâ€Infrared Electron Acceptors for Singleâ€Component Organic Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	13.8	28
31	Universal Hole Transporting Material via Mutual Doping for Conventional, Inverted, and Blade-Coated Large-Area Organic Solar Cells. Chemistry of Materials, 2022, 34, 6312-6322.	6.7	12
32	A New Polymer Donor Enables Binary Allâ€Polymer Organic Photovoltaic Cells with 18% Efficiency and Excellent Mechanical Robustness. Advanced Materials, 2022, 34, .	21.0	150
33	Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. Materials Chemistry Frontiers, 2021, 5, 893-900.	5.9	32
34	Recent progress in reducing voltage loss in organic photovoltaic cells. Materials Chemistry Frontiers, 2021, 5, 709-722.	5.9	41
35	Optimizing polymer aggregation and blend morphology for boosting the photovoltaic performance of polymer solar cells via a random terpolymerization strategy. Journal of Energy Chemistry, 2021, 59, 30-37.	12.9	20
36	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.	30.8	116

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37	Design of ultra-high luminescent polymers for organic photovoltaic cells with low energy loss. Chemical Communications, 2021, 57, 9132-9135.	4.1	12
38	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2010535.	14.9	55
39	Molecular design revitalizes the low-cost PTV-polymer for highly efficient organic solar cells. National Science Review, 2021, 8, nwab031.	9.5	70
40	Suppressing trap states and energy loss by optimizing vertical phase distribution through ternary strategy in organic solar cells. Science China Chemistry, 2021, 64, 599-607.	8.2	22
41	n-doped inorganic molecular clusters as a new type of hole transport material for efficient organic solar cells. Joule, 2021, 5, 646-658.	24.0	76
42	Effect of alkyl side chains of twisted conjugated polymer donors on photovoltaic performance. Polymer, 2021, 218, 123475.	3.8	6
43	Hybrid Perovskite Quantum Dot/Nonâ€Fullerene Molecule Solar Cells with Efficiency Over 15%. Advanced Functional Materials, 2021, 31, 2101272.	14.9	44
44	A New Conjugated Polymer that Enables the Integration of Photovoltaic and Lightâ€Emitting Functions in One Device. Advanced Materials, 2021, 33, e2101090.	21.0	129
45	Suppressing Energetic Disorder Enables Efficient Indoor Organic Photovoltaic Cells With a PTV Derivative. Frontiers in Chemistry, 2021, 9, 684241.	3.6	9
46	Elucidating End-Group Modifications of Carbazole-Based Nonfullerene Acceptors in Indoor Applications for Achieving a PCE of over 20%. ACS Applied Materials & Interfaces, 2021, 13, 26247-26255.	8.0	14
47	Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Crossâ€Linkable Fullerene Derivative. Small, 2021, 17, e2101133.	10.0	34
48	Accurate photovoltaic measurement of organic cells for indoor applications. Joule, 2021, 5, 1016-1023.	24.0	52
49	Rational Anode Engineering Enables Progresses for Different Types of Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2100492.	19.5	108
50	Control of aggregated structure of photovoltaic polymers for highâ€efficiency solar cells. Aggregate, 2021, 2, e46.	9.9	60
51	Modulation of terminal alkyl chain length enables over 15% efficiency in small-molecule organic solar cells. Science China Chemistry, 2021, 64, 1200-1207.	8.2	20
52	Probing molecular orientation at bulk heterojunctions by polarization-selective transient absorption spectroscopy. Science China Chemistry, 2021, 64, 1569-1576.	8.2	2
53	A unified description of non-radiative voltage losses in organic solar cells. Nature Energy, 2021, 6, 799-806.	39.5	235
54	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donorâ€“Acceptor Photovoltaic Blends. Angewandte Chemie - International Edition, 2021, 60, 15988-15994.	13.8	60

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55	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donorâ€“Acceptor Photovoltaic Blends. Angewandte Chemie, 2021, 133, 16124-16130.	2.0	11
56	Achieving over 10â€‰% Efficiency in Poly(3â€hexylthiophene)â€Based Organic Solar Cells via Solid Additives. ChemSusChem, 2021, 14, 3607-3613.	6.8	43
57	Miscibility Control by Tuning Electrostatic Interactions in Bulk Heterojunction for Efficient Organic Solar Cells. , 2021, 3, 1276-1283.		26
58	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. Nature Photonics, 2021, 15, 681-689.	31.4	255
59	Fluorination strategy enables greatly improved performance for organic solar cells based on polythiophene derivatives. Chinese Chemical Letters, 2021, 32, 2274-2278.	9.0	30
60	<scp>Solutionâ€Processed</scp> Silver Nanowire as Flexible Transparent Electrodes in Organic Solar Cells. Chinese Journal of Chemistry, 2021, 39, 2315-2329.	4.9	33
61	A Thiadiazoleâ€Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. Advanced Energy Materials, 2021, 11, 2101705.	19.5	125
62	Nonâ€Fullerene Molecules: Hybrid Perovskite Quantum Dot/Nonâ€Fullerene Molecule Solar Cells with Efficiency Over 15% (Adv. Funct. Mater. 27/2021). Advanced Functional Materials, 2021, 31, 2170196.	14.9	3
63	Completely non-fused electron acceptor with 3D-interpenetrated crystalline structure enables efficient and stable organic solar cell. Nature Communications, 2021, 12, 5093.	12.8	210
64	Progress in Organic Solar Cells: Materials, Physics and Device Engineering. Chinese Journal of Chemistry, 2021, 39, 2607-2625.	4.9	62
65	A Tandem Organic Photovoltaic Cell with 19.6% Efficiency Enabled by Light Distribution Control. Advanced Materials, 2021, 33, e2102787.	21.0	210
66	Singleâ€Junction Organic Photovoltaic Cell with 19% Efficiency. Advanced Materials, 2021, 33, e2102420.	21.0	1,072
67	The performance-stability conundrum of BTP-based organic solar cells. Joule, 2021, 5, 2129-2147.	24.0	133
68	Reduced non-radiative charge recombination enables organic photovoltaic cell approaching 19% efficiency. Joule, 2021, 5, 2408-2419.	24.0	419
69	18.5% Efficiency Organic Solar Cells with a Hybrid Planar/Bulk Heterojunction. Advanced Materials, 2021, 33, e2103091.	21.0	136
70	Squaraine organic crystals with strong dipole effect toward stable lithium-organic batteries. Energy Storage Materials, 2021, 41, 240-247.	18.0	16
71	Optimization of active layer morphology by small-molecule donor design enables over 15% efficiency in small-molecule organic solar cells. Journal of Materials Chemistry A, 2021, 9, 13653-13660.	10.3	21
72	Advances and prospective in thermally stable nonfullerene polymer solar cells. Science China Chemistry, 2021, 64, 1875-1887.	8.2	31

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73	Multiâ€Functional Solid Additive Induced Favorable Vertical Phase Separation and Ordered Molecular Packing for Highly Efficient Layerâ€byâ€Layer Organic Solar Cells. Small, 2021, 17, e2103497.	10.0	49
74	Thermoplastic Elastomer Tunes Phase Structure and Promotes Stretchability of Highâ€Efficiency Organic Solar Cells. Advanced Materials, 2021, 33, e2106732.	21.0	101
75	A guest-assisted molecular-organization approach for >17% efficiency organic solar cells using environmentally friendly solvents. Nature Energy, 2021, 6, 1045-1053.	39.5	230
76	Optimized Charge Transport Channel Enables Thick-Film All-Small-Molecule Organic Solar Cells. Energy & Fuels, 2021, 35, 19756-19764.	5.1	0
77	Significant influence of doping effect on photovoltaic performance of efficient fullerene-free polymer solar cells. Journal of Energy Chemistry, 2020, 43, 40-46.	12.9	43
78	A ternary organic solar cell with 300 nm thick active layer shows over 14% efficiency. Science China Chemistry, 2020, 63, 21-27.	8.2	72
79	Tuning the Energetic Landscape of Ruddlesdenâ€“Popper Perovskite Films for Efficient Solar Cells. ACS Energy Letters, 2020, 5, 39-46.	17.4	47
80	The effect of aggregation behavior on photovoltaic performances in benzodithiophene-thiazolothiazole-based wide band-gap conjugated polymers with side chain position changes. Polymer Chemistry, 2020, 11, 1629-1636.	3.9	30
81	Increased conjugated backbone twisting to improve carbonylated-functionalized polymer photovoltaic performance. Organic Chemistry Frontiers, 2020, 7, 261-266.	4.5	10
82	A chlorinated nonacyclic carbazole-based acceptor affords over 15% efficiency in organic solar cells. Journal of Materials Chemistry A, 2020, 8, 1131-1137.	10.3	65
83	Study of photovoltaic performances for asymmetrical and symmetrical chlorinated thiophene-bridge-based conjugated polymers. Journal of Materials Chemistry C, 2020, 8, 2301-2306.	5.5	15
84	TCNQ as a volatilizable morphology modulator enables enhanced performance in non-fullerene organic solar cells. Journal of Materials Chemistry C, 2020, 8, 44-49.	5.5	16
85	Tailoring and Modifying an Organic Electron Acceptor toward the Cathode Interlayer for Highly Efficient Organic Solar Cells. Advanced Materials, 2020, 32, e1906557.	21.0	109
86	PBDB-T and its derivatives: A family of polymer donors enables over 17% efficiency in organic photovoltaics. Materials Today, 2020, 35, 115-130.	14.2	269
87	Organic photovoltaic cell with 17% efficiency and superior processability. National Science Review, 2020, 7, 1239-1246.	9.5	443
88	Reducing Voltage Losses in the A-DAâ€²D-A Acceptor-Based Organic Solar Cells. CheM, 2020, 6, 2147-2161.	11.7	150
89	Recent advances in non-fullerene organic solar cells: from lab to fab. Chemical Communications, 2020, 56, 14337-14352.	4.1	75
90	Molecular design of a non-fullerene acceptor enables a P3HT-based organic solar cell with 9.46% efficiency. Energy and Environmental Science, 2020, 13, 2864-2869.	30.8	158

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91	Recent advances in high-efficiency organic solar cells fabricated by eco-compatible solvents at relatively large-area scale. APL Materials, 2020, 8, .	5.1	45
92	Inorganic Molecular Clusters with Facile Preparation and Neutral pH for Efficient Hole Extraction in Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 39462-39470.	8.0	14
93	Organic Photovoltaic Cells for Indoor Applications: Opportunities and Challenges. ACS Applied Materials & Interfaces, 2020, 12, 38815-38828.	8.0	126
94	Quantifying V_{oc} loss induced by alkyl pendants of acceptors in organic solar cells. Journal of Materials Chemistry C, 2020, 8, 12568-12577.	5.5	14
95	Chlorinated Carbonâ€Bridged and Siliconâ€Bridged Carbazoleâ€Based Nonfullerene Acceptors Manifest Synergistic Enhancement in Ternary Organic Solar Cell with Efficiency over 15%. Solar Rrl, 2020, 4, 2000357.	5.8	19
96	PTV-based p-type organic semiconductors: Candidates for low-cost photovoltaic donors with simple synthetic routes. Polymer, 2020, 209, 122900.	3.8	21
97	Robust metal ion-chelated polymer interfacial layer for ultraflexible non-fullerene organic solar cells. Nature Communications, 2020, 11, 4508.	12.8	141
98	Low Temperature Aggregation Transitions in N3 and Y6 Acceptors Enable Doubleâ€Annealing Method That Yields Hierarchical Morphology and Superior Efficiency in Nonfullerene Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2005011.	14.9	66
99	Reduced Nonradiative Recombination Energy Loss Enabled Efficient Polymer Solar Cells via Tuning Alkyl Chain Positions on Pendent Benzene Units of Polymers. ACS Applied Materials & Interfaces, 2020, 12, 24184-24191.	8.0	7
100	A Novel Wideâ€Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. Advanced Functional Materials, 2020, 30, 1910466.	14.9	50
101	Printable SnO2 cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. Science China Chemistry, 2020, 63, 957-965.	8.2	38
102	Efficient charge generation at low energy losses in organic solar cells: a key issues review. Reports on Progress in Physics, 2020, 83, 082601.	20.1	43
103	Organic photovoltaic cells for low light applications offering new scope and orientation. Organic Electronics, 2020, 85, 105798.	2.6	26
104	Impact of the Hole Transport Layer on the Charge Extraction of Ruddlesdenâ€“Popper Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 29505-29512.	8.0	4
105	Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. Journal of Physical Chemistry C, 2020, 124, 7691-7698.	3.1	18
106	Tuning the Hybridization of Local Exciton and Chargeâ€Transfer States in Highly Efficient Organic Photovoltaic Cells. Angewandte Chemie - International Edition, 2020, 59, 9004-9010.	13.8	144
107	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. Science China Materials, 2020, 63, 1142-1150.	6.3	140
108	Recent progress in wide bandgap conjugated polymer donors for high-performance nonfullerene organic photovoltaics. Chemical Communications, 2020, 56, 4750-4760.	4.1	94

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109	Carbonyl Bridge-Based pâ^Ï€ Conjugated Polymers as High-Performance Electrodes of Organic Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 18457-18464.	8.0	39
110	Recent Progress in Chlorinated Organic Photovoltaic Materials. Accounts of Chemical Research, 2020, 53, 822-832.	15.6	198
111	Singleâ€Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. Advanced Materials, 2020, 32, e1908205.	21.0	1,407
112	Tuning the Hybridization of Local Exciton and Chargeâ€Transfer States in Highly Efficient Organic Photovoltaic Cells. Angewandte Chemie, 2020, 132, 9089-9095.	2.0	24
113	Efficient and photostable ternary organic solar cells with a narrow band gap non-fullerene acceptor and fullerene additive. Journal of Materials Chemistry A, 2020, 8, 6682-6691.	10.3	37
114	Exceptionally low charge trapping enables highly efficient organic bulk heterojunction solar cells. Energy and Environmental Science, 2020, 13, 2422-2430.	30.8	152
115	Toward Visibly Transparent Organic Photovoltaic Cells Based on a Near-Infrared Harvesting Bulk Heterojunction Blend. ACS Applied Materials & Interfaces, 2020, 12, 32764-32770.	8.0	40
116	Enhanced photovoltaic effect from naphtho[2,3-c]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. Journal of Materials Chemistry A, 2020, 8, 14706-14712.	10.3	10
117	Effects on the photovoltaic properties of copolymers with five-membered chalcogen-Ï€-heterocycle bridges. Polymer Chemistry, 2020, 11, 5019-5028.	3.9	13
118	Influence of Covalent and Noncovalent Backbone Rigidification Strategies on the Aggregation Structures of a Wide-Band-Gap Polymer for Photovoltaic Cells. Chemistry of Materials, 2020, 32, 1993-2003.	6.7	36
119	Realizing Ultrahigh Mechanical Flexibility and >15% Efficiency of Flexible Organic Solar Cells via a â€œWeldingâ€•Flexible Transparent Electrode. Advanced Materials, 2020, 32, e1908478.	21.0	216
120	An inorganic molecule-induced electron transfer complex for highly efficient organic solar cells. Journal of Materials Chemistry A, 2020, 8, 5580-5586.	10.3	21
121	Terrylene diimide-based middle-low bandgap electron acceptors for organic photovoltaics. Journal of Materials Chemistry C, 2020, 8, 4441-4446.	5.5	11
122	Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. Energy and Environmental Science, 2020, 13, 635-645.	30.8	636
123	High-Efficiency Nonfullerene Organic Solar Cells Enabled by 1000 nm Thick Active Layers with a Low Trap-State Density. ACS Applied Materials & Interfaces, 2020, 12, 18777-18784.	8.0	74
124	Research Progress of Tandem Organic Solar Cells. Acta Chimica Sinica, 2020, 78, 382.	1.4	13
125	Ecoâ€Compatible Solventâ€Processed Organic Photovoltaic Cells with Over 16% Efficiency. Advanced Materials, 2019, 31, e1903441.	21.0	445
126	Wide-gap non-fullerene acceptor enabling high-performance organic photovoltaic cells for indoor applications. Nature Energy, 2019, 4, 768-775.	39.5	407

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127	Observing electron transport and percolation in selected bulk heterojunctions bearing fullerene derivatives, non-fullerene small molecules, and polymeric acceptors. Nano Energy, 2019, 64, 103950.	16.0	31
128	Single-Junction Organic Solar Cell Containing a Fluorinated Heptacyclic Carbazole-Based Ladder-Type Acceptor Affords over 13% Efficiency with Solution-Processed Cross-Linkable Fullerene as an Interfacial Layer. ACS Applied Materials & Interfaces, 2019, 11, 31069-31077.	8.0	31
129	Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1901823.	19.5	72
130	Effects of energy-level offset between a donor and acceptor on the photovoltaic performance of non-fullerene organic solar cells. Journal of Materials Chemistry A, 2019, 7, 18889-18897.	10.3	87
131	Improved Charge Transport and Reduced Nonradiative Energy Loss Enable Over 16% Efficiency in Ternary Polymer Solar Cells. Advanced Materials, 2019, 31, e1902302.	21.0	364
132	Investigating the Trade-Off between Device Performance and Energy Loss in Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 29124-29131.	8.0	24
133	Modulation of Building Block Size in Conjugated Polymers with Dâ€“A Structure for Polymer Solar Cells. Macromolecules, 2019, 52, 7929-7938.	4.8	10
134	Efficiency above 12% for 1 cm² Flexible Organic Solar Cells with Ag/Cu Grid Transparent Conducting Electrode. Advanced Science, 2019, 6, 1901490.	11.2	58
135	Efficient Organic Solar Cells with a High Openâ€Circuit Voltage of 1.34 V. Chinese Journal of Chemistry, 2019, 37, 1153-1157.	4.9	20
136	1 cm² Organic Photovoltaic Cells for Indoor Application with over 20% Efficiency. Advanced Materials, 2019, 31, e1904512.	21.0	140
137	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. Science China Chemistry, 2019, 62, 370-377.	8.2	29
138	12.88% efficiency in doctor-blade coated organic solar cells through optimizing the surface morphology of a ZnO cathode buffer layer. Journal of Materials Chemistry A, 2019, 7, 212-220.	10.3	70
139	Exquisite modulation of ZnO nanoparticle electron transporting layer for high-performance fullerene-free organic solar cell with inverted structure. Journal of Materials Chemistry A, 2019, 7, 3570-3576.	10.3	58
140	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. Journal of the American Chemical Society, 2019, 141, 3073-3082.	13.7	362
141	Enhanced JSC of P3HT-based non-fullerene polymer solar cells by modulating aggregation effect of P3HT in solution state. Organic Electronics, 2019, 68, 15-21.	2.6	17
142	Vacuum-assisted annealing method for high efficiency printable large-area polymer solar cell modules. Journal of Materials Chemistry C, 2019, 7, 3206-3211.	5.5	27
143	Multifunctional bipyramid-Au@ZnO coreâ€“shell nanoparticles as a cathode buffer layer for efficient non-fullerene inverted polymer solar cells with improved near-infrared photoresponse. Journal of Materials Chemistry A, 2019, 7, 2667-2676.	10.3	27
144	Control of Donorâ€“Acceptor Photophysics through Structural Modification of a â€œTwistingâ€• Pushâ€“Pull Molecule. Chemistry of Materials, 2019, 31, 6860-6869.	6.7	15

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145	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. Nature Communications, 2019, 10, 2515.	12.8	1,431
146	Carboxylate-Substituted Polythiophenes for Efficient Fullerene-Free Polymer Solar Cells: The Effect of Chlorination on Their Properties. Macromolecules, 2019, 52, 4464-4474.	4.8	75
147	Interfacial engineering and optical coupling for multicolored semitransparent inverted organic photovoltaics with a record efficiency of over 12%. Journal of Materials Chemistry A, 2019, 7, 15887-15894.	10.3	83
148	Design of wide-bandgap polymers with deeper ionization potential enables efficient ternary non-fullerene polymer solar cells with 13% efficiency. Journal of Materials Chemistry A, 2019, 7, 14153-14162.	10.3	27
149	p-Doped Conducting Polyelectrolyte as an Anode Interlayer Enables High Efficiency for 1 cm² Printed Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 20205-20213.	8.0	28
150	Increasing Quantum Efficiency of Polymer Solar Cells with Efficient Exciton Splitting and Long Carrier Lifetime by Molecular Doping at Heterojunctions. ACS Energy Letters, 2019, 4, 1356-1363.	17.4	45
151	Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. Chemistry of Materials, 2019, 31, 3636-3643.	6.7	22
152	14.7% Efficiency Organic Photovoltaic Cells Enabled by Active Materials with a Large Electrostatic Potential Difference. Journal of the American Chemical Society, 2019, 141, 7743-7750.	13.7	379
153	Enhanced Ï€â€“Ï€ Interactions of Nonfullerene Acceptors by Volatilizable Solid Additives in Efficient Polymer Solar Cells. Advanced Materials, 2019, 31, e1900477.	21.0	99
154	Energy level modulation of ITIC derivatives: Effects on the photodegradation of conventional and inverted organic solar cells. Organic Electronics, 2019, 69, 255-262.	2.6	31
155	Highly fluorescent anthracene derivative as a non-fullerene acceptor in OSCs with small non-radiative energy loss of 0.22ÂeV and high PCEs of over 13%. Journal of Materials Chemistry A, 2019, 7, 10212-10216.	10.3	22
156	Regulating Bulkâ€Heterojunction Molecular Orientations through Surface Free Energy Control of Holeâ€Transporting Layers for Highâ€Performance Organic Solar Cells. Advanced Materials, 2019, 31, e1806921.	21.0	86
157	Significant Effect of Fluorination on Simultaneously Improving Work Function and Transparency of Anode Interlayer for Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1803826.	19.5	21
158	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. Advanced Materials, 2019, 31, e1808356.	21.0	388
159	Asymmetric Wideâ€Bandgap Polymers Simultaneously Improve the Openâ€Circuit Voltage and Shortâ€Circuit Current for Organic Photovoltaics. Macromolecular Rapid Communications, 2019, 40, e1800906.	3.9	21
160	Boosting the Performance of Non-Fullerene Organic Solar Cells via Cross-Linked Donor Polymers Design. Macromolecules, 2019, 52, 2214-2221.	4.8	26
161	Recent Advances in Fullereneâ€free Polymer Solar Cells: Materials and Devices. Chinese Journal of Chemistry, 2019, 37, 207-215.	4.9	46
162	A Selfâ€Organized Poly(vinylpyrrolidone)â€Based Cathode Interlayer in Inverted Fullereneâ€Free Organic Solar Cells. Advanced Materials, 2019, 31, e1804657.	21.0	43

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