Maojie Zhang

List of Publications by Year
in descending order

179	15,300	13827 67	18606 119
papers	citations	h-index	g-index

179	179	179	7188
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	A Largeâ€Bandgap Conjugated Polymer for Versatile Photovoltaic Applications with High Performance. Advanced Materials, 2015, 27, 4655-4660.	11.1	882
2	Molecular Design toward Highly Efficient Photovoltaic Polymers Based on Two-Dimensional Conjugated Benzodithiophene. Accounts of Chemical Research, 2014, 47, 1595-1603.	7.6	667
3	Design, Application, and Morphology Study of a New Photovoltaic Polymer with Strong Aggregation in Solution State. Macromolecules, 2012, 45, 9611-9617.	2.2	664
4	High efficiency polymer solar cells based on poly(3-hexylthiophene)/indene-C70 bisadduct with solvent additive. Energy and Environmental Science, 2012, 5, 7943.	15.6	400
5	Synergistic Effect of Fluorination on Molecular Energy Level Modulation in Highly Efficient Photovoltaic Polymers. Advanced Materials, 2014, 26, 1118-1123.	11.1	386
6	Mapping Polymer Donors toward Highâ€Efficiency Fullerene Free Organic Solar Cells. Advanced Materials, 2017, 29, 1604155.	11.1	360
7	Synergistic effect of fluorination on both donor and acceptor materials for high performance non-fullerene polymer solar cells with 13.5% efficiency. Science China Chemistry, 2018, 61, 531-537.	4.2	342
8	Efficient Polymer Solar Cells Based on Benzothiadiazole and Alkylphenyl Substituted Benzodithiophene with a Power Conversion Efficiency over 8%. Advanced Materials, 2013, 25, 4944-4949.	11.1	306
9	Improving open-circuit voltage by a chlorinated polymer donor endows binary organic solar cells efficiencies over 17%. Science China Chemistry, 2020, 63, 325-330.	4.2	292
10	10.8% Efficiency Polymer Solar Cells Based on PTB7â€Th and PC₇₁BM via Binary Solvent Additives Treatment. Advanced Functional Materials, 2016, 26, 6635-6640.	7.8	279
11	Use of two structurally similar small molecular acceptors enabling ternary organic solar cells with high efficiencies and fill factors. Energy and Environmental Science, 2018, 11, 3275-3282.	15.6	261
12	Chlorine substituted 2D-conjugated polymer for high-performance polymer solar cells with 13.1% efficiency via toluene processing. Nano Energy, 2018, 48, 413-420.	8.2	257
13	A unified description of non-radiative voltage losses in organic solar cells. Nature Energy, 2021, 6, 799-806.	19.8	235
14	Highâ€Performance Asâ€Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. Advanced Materials, 2018, 30, 1704546.	11.1	233
15	Influence of D/A Ratio on Photovoltaic Performance of a Highly Efficient Polymer Solar Cell System. Advanced Materials, 2012, 24, 6536-6541.	11.1	229
16	16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. Joule, 2021, 5, 914-930.	11.7	228
17	Random terpolymer based on thiophene-thiazolothiazole unit enabling efficient non-fullerene organic solar cells. Nature Communications, 2020, 11, 4612.	5.8	225
18	A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. Energy and Environmental Science, 2019, 12, 2529-2536.	15.6	213

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19	Remove the Residual Additives toward Enhanced Efficiency with Higher Reproducibility in Polymer Solar Cells. Journal of Physical Chemistry C, 2013, 117, 14920-14928.	1.5	210
20	A Tandem Organic Photovoltaic Cell with 19.6% Efficiency Enabled by Light Distribution Control. Advanced Materials, 2021, 33, e2102787.	11.1	210
21	A Polythiophene Derivative with Superior Properties for Practical Application in Polymer Solar Cells. Advanced Materials, 2014, 26, 5880-5885.	11.1	205
22	Enhanced Photovoltaic Performance by Modulating Surface Composition in Bulk Heterojunction Polymer Solar Cells Based on PBDTTTâ€Câ€T/PC₇₁BM. Advanced Materials, 2014, 26, 4043-4049.	11.1	203
23	High Efficiency Nonfullerene Polymer Solar Cells with Thick Active Layer and Large Area. Advanced Materials, 2017, 29, 1702291.	11.1	195
24	Synthesis and Photovoltaic Properties of Dâ€“A Copolymers Based on Alkyl-Substituted Indacenodithiophene Donor Unit. Chemistry of Materials, 2011, 23, 4264-4270.	3.2	193
25	Effects of Ï€-Conjugated Bridges on Photovoltaic Properties of Donor-Ï€-Acceptor Conjugated Copolymers. Macromolecules, 2012, 45, 1208-1216.	2.2	191
26	PDTâ€Sâ€T: A New Polymer with Optimized Molecular Conformation for Controlled Aggregation and <i>Ï€</i>â€“<i>Ï€</i> Stacking and Its Application in Efficient Photovoltaic Devices. Advanced Materials, 2013, 25, 3449-3455.	11.1	190
27	Highâ€Performance Organic Solar Cells Based on a Small Molecule with Alkylthioâ€Thienylâ€Conjugated Side Chains without Extra Treatments. Advanced Materials, 2015, 27, 7469-7475.	11.1	186
28	Solution-Processable Star-Shaped Molecules with Triphenylamine Core and Dicyanovinyl Endgroups for Organic Solar Cellsâ€. Chemistry of Materials, 2011, 23, 817-822.	3.2	158
29	Two Wellâ€Miscible Acceptors Work as One for Efficient Fullereneâ€Free Organic Solar Cells. Advanced Materials, 2017, 29, 1700437.	11.1	157
30	Two compatible nonfullerene acceptors with similar structures as alloy for efficient ternary polymer solar cells. Nano Energy, 2017, 38, 510-517.	8.2	149
31	Reduced Energy Loss Enabled by a Chlorinated Thiopheneâ€Fused Endingâ€Group Small Molecular Acceptor for Efficient Nonfullerene Organic Solar Cells with 13.6% Efficiency. Advanced Energy Materials, 2019, 9, 1900041.	10.2	144
32	11.2% Efficiency all-polymer solar cells with high open-circuit voltage. Science China Chemistry, 2019, 62, 845-850.	4.2	140
33	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6â€‰% Efficiency Organic Solar Cells with Enhanced Fill Factor. Angewandte Chemie - International Edition, 2021, 60, 2322-2329.	7.2	138
34	Recent advances in PM6:Y6-based organic solar cells. Materials Chemistry Frontiers, 2021, 5, 3257-3280.	3.2	138
35	Effect of Carbon Chain Length in the Substituent of PCBMâ€like Molecules on Their Photovoltaic Properties. Advanced Functional Materials, 2010, 20, 1480-1487.	7.8	137
36	An Easy and Effective Method to Modulate Molecular Energy Level of the Polymer Based on Benzodithiophene for the Application in Polymer Solar Cells. Advanced Materials, 2014, 26, 2089-2095.	11.1	137

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37	Highly Efficient Tandem Polymer Solar Cells with a Photovoltaic Response in the Visible Light Range. Advanced Materials, 2015, 27, 1189-1194.	11.1	130
38	Conjugated and Nonconjugated Substitution Effect on Photovoltaic Properties of Benzodifuran-Based Photovoltaic Polymers. Macromolecules, 2012, 45, 6923-6929.	2.2	129
39	Synthesis and Characterization of a Copolymer Based on Thiazolothiazole and Dithienosilole for Polymer Solar Cells. Advanced Energy Materials, 2011, 1, 557-560.	10.2	110
40	Color-neutral, semitransparent organic photovoltaics for power window applications. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21147-21154.	3.3	109
41	Highâ€Performance Nonâ€Fullerene Polymer Solar Cells Based on Fluorine Substituted Wide Bandgap Copolymers Without Extra Treatments. Solar Rrl, 2017, 1, 1700020.	3.1	107
42	Synthesis of a 4,8-dialkoxy-benzo[1,2-b:4,5-bâ€²]difuran unit and its application in photovoltaic polymer. Chemical Communications, 2012, 48, 3318.	2.2	105
43	A Nonâ€Conjugated Polymer Acceptor for Efficient and Thermally Stable Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 19835-19840.	7.2	105
44	Synthesis and Photovoltaic Properties of Bithiazole-Based Donorâˆ'Acceptor Copolymers. Macromolecules, 2010, 43, 5706-5712.	2.2	103
45	All-polymer solar cells based on a novel narrow-bandgap polymer acceptor with power conversion efficiency over 10%. Journal of Materials Chemistry A, 2019, 7, 16190-16196.	5.2	103
46	A novel wide-bandgap small molecule donor for high efficiency all-small-molecule organic solar cells with small non-radiative energy losses. Energy and Environmental Science, 2020, 13, 1309-1317.	15.6	99
47	Achieving 16.68% efficiency ternary as-cast organic solar cells. Science China Chemistry, 2021, 64, 581-589.	4.2	99
48	Alternating Copolymers of Carbazole and Triphenylamine with Conjugated Side Chain Attaching Acceptor Groups: Synthesis and Photovoltaic Application. Macromolecules, 2010, 43, 9376-9383.	2.2	98
49	Alkyl chain engineering on a dithieno[3,2-b:2â€²,3â€²-d]silole-alt-dithienylthiazolo[5,4-d]thiazole copolymer toward high performance bulk heterojunction solar cells. Chemical Communications, 2011, 47, 9474.	2.2	94
50	Synthesis and Photovoltaic Properties of Dâ€"A Copolymers Based on Dithienosilole and Benzotriazole. Macromolecules, 2011, 44, 7632-7638.	2.2	93
51	Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains for Single-Component Organic Solar Cells. Chemistry of Materials, 2017, 29, 7073-7077.	3.2	93
52	Efficient ternary blend all-polymer solar cells with a polythiophene derivative as a hole-cascade material. Journal of Materials Chemistry A, 2016, 4, 14752-14760.	5.2	91
53	Highly efficient near-infrared and semitransparent polymer solar cells based on an ultra-narrow bandgap nonfullerene acceptor. Journal of Materials Chemistry A, 2019, 7, 3745-3751.	5.2	89
54	An asymmetric wide-bandgap acceptor simultaneously enabling highly efficient single-junction and tandem organic solar cells. Energy and Environmental Science, 2022, 15, 1585-1593.	15.6	89

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55	Butterfly Effects Arising from Starting Materials in Fused-Ring Electron Acceptors. Journal of the American Chemical Society, 2020, 142, 20124-20133.	6.6	87
56	Efficient Polymer Solar Cells Based on Poly(3-hexylthiophene) and Indeneâ€“C₆₀ Bisadduct Fabricated with Non-halogenated Solvents. ACS Applied Materials & Interfaces, 2014, 6, 8190-8198.	4.0	86
57	Synergetic Transparent Electrode Architecture for Efficient Non-Fullerene Flexible Organic Solar Cells with >12% Efficiency. ACS Nano, 2019, 13, 4686-4694.	7.3	86
58	A New Polythiophene Derivative for High Efficiency Polymer Solar Cells with PCE over 9%. Advanced Energy Materials, 2016, 6, 1600430.	10.2	84
59	Origin of Efficient Inverted Nonfullerene Organic Solar Cells: Enhancement of Charge Extraction and Suppression of Bimolecular Recombination Enabled by Augmented Internal Electric Field. Journal of Physical Chemistry Letters, 2017, 8, 5264-5271.	2.1	77
60	Side-chain engineering for efficient non-fullerene polymer solar cells based on a wide-bandgap polymer donor. Journal of Materials Chemistry A, 2017, 5, 9204-9209.	5.2	76
61	Asymmetrically noncovalently fused-ring acceptor for high-efficiency organic solar cells with reduced voltage loss and excellent thermal stability. Nano Energy, 2020, 74, 104861.	8.2	75
62	Synthesis and photovoltaic properties of an n-type two-dimension-conjugated polymer based on perylene diimide and benzodithiophene with thiophene conjugated side chains. Journal of Materials Chemistry A, 2015, 3, 18442-18449.	5.2	73
63	A furan-bridged D-Ï€-A copolymer with deep HOMO level: synthesis and application in polymer solar cells. Polymer Chemistry, 2011, 2, 2872.	1.9	71
64	Poly(thieno[3,2-<i>b</i>]thiophene-<i>alt</i>-bithiazole): A Dâ€“A Copolymer Donor Showing Improved Photovoltaic Performance with Indene-C₆₀ Bisadduct Acceptor. Macromolecules, 2012, 45, 6930-6937.	2.2	71
65	Nonhalogen solvent-processed polymer solar cells based on chlorine and trialkylsilyl substituted conjugated polymers achieve 12.8% efficiency. Journal of Materials Chemistry A, 2019, 7, 2351-2359.	5.2	71
66	High-performance nonfullerene polymer solar cells with open-circuit voltage over 1 V and energy loss as low as 0.54 eV. Nano Energy, 2017, 40, 20-26.	8.2	70
67	High-performance nonfullerene polymer solar cells based on a fluorinated wide bandgap copolymer with a high open-circuit voltage of 1.04 V. Journal of Materials Chemistry A, 2017, 5, 22180-22185.	5.2	68
68	Nonfullerene Polymer Solar Cells based on a Perylene Monoimide Acceptor with a High Openâ€Circuit Voltage of 1.3 V. Advanced Functional Materials, 2017, 27, 1603892.	7.8	67
69	Fluorinated Photovoltaic Materials for Highâ€Performance Organic Solar Cells. Chemistry - an Asian Journal, 2019, 14, 3085-3095.	1.7	66
70	Design, synthesis and photovoltaic properties of a new Dâ€“Ï€â€“A polymer with extended Ï€-bridge units. Journal of Materials Chemistry, 2012, 22, 21024.	6.7	65
71	Synthesis and Characterization of Dioctyloxybenzo[1,2-<i>b</i>:4,3-<i>b</i>â€²]dithiophene-Containing Copolymers for Polymer Solar Cells. Macromolecules, 2011, 44, 7625-7631.	2.2	63
72	Photovoltaic Performance Improvement of Dâ€“A Copolymers Containing Bithiazole Acceptor Unit by Using Bithiophene Bridges. Macromolecules, 2011, 44, 8798-8804.	2.2	61

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73	Downwards tuning the HOMO level of polythiophene by carboxylate substitution for high open-circuit-voltage polymer solar cells. Polymer Chemistry, 2011, 2, 2900.	1.9	61
74	Selenium-Containing Medium Bandgap Copolymer for Bulk Heterojunction Polymer Solar Cells with High Efficiency of 9.8%. Chemistry of Materials, 2017, 29, 4811-4818.	3.2	60
75	Random Polymerization Strategy Leads to a Family of Donor Polymers Enabling Wellâ€Controlled Morphology and Multiple Cases of Highâ€Performance Organic Solar Cells. Advanced Materials, 2020, 32, e2003500.	11.1	59
76	A wide-bandgap conjugated polymer for highly efficient inverted single and tandem polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 13251-13258.	5.2	58
77	Defect passivation by alcohol-soluble small molecules for efficient pâ€"iâ€"n planar perovskite solar cells with high open-circuit voltage. Journal of Materials Chemistry A, 2019, 7, 21140-21148.	5.2	58
78	Synthesis and Photovoltaic Properties of a Copolymer of Benzo[1,2-b:4,5-bâ€²]dithiophene and Bithiazole. Macromolecules, 2010, 43, 8714-8717.	2.2	56
79	Over 15% Efficiency Polymer Solar Cells Enabled by Conformation Tuning of Newly Designed Asymmetric Smallâ€Molecule Acceptors. Advanced Functional Materials, 2020, 30, 2000383.	7.8	55
80	Triphenylamine-containing linear D-A-D molecules with benzothiadiazole as acceptor unit for bulk-heterojunction organic solar cells. Organic Electronics, 2011, 12, 614-622.	1.4	53
81	Conjugated Side-Chain Isolated Polythiophene: Synthesis and Photovoltaic Application. Macromolecules, 2012, 45, 113-118.	2.2	53
82	Solution-processed indacenodithiophene-based small molecule for bulk heterojunction solar cells. Journal of Materials Chemistry A, 2013, 1, 14214.	5.2	49
83	A universal approach to improve electron mobility without significant enlarging phase separation in IDT-based non-fullerene acceptor organic solar cells. Nano Energy, 2017, 41, 609-617.	8.2	49
84	Conformationâ€Tuning Effect of Asymmetric Small Molecule Acceptors on Molecular Packing, Interaction, and Photovoltaic Performance. Small, 2020, 16, e2001942.	5.2	49
85	Influence of the backbone conformation of conjugated polymers on morphology and photovoltaic properties. Polymer Chemistry, 2014, 5, 1976-1981.	1.9	48
86	Carboxylate substituted pyrazine: A simple and low-cost building block for novel wide bandgap polymer donor enables 15.3% efficiency in organic solar cells. Nano Energy, 2021, 82, 105679.	8.2	48
87	Improving the performance of near infrared binary polymer solar cells by adding a second non-fullerene intermediate band-gap acceptor. Journal of Materials Chemistry C, 2020, 8, 909-915.	2.7	47
88	Synergistically minimized nonradiative energy loss and optimized morphology achieved via the incorporation of small molecule donor in 17.7% efficiency ternary polymer solar cells. Nano Energy, 2021, 85, 105963.	8.2	47
89	Effects of the Number of Bromine Substitution on Photovoltaic Efficiency and Energy Loss of Benzo[1,2â€b:4,5â€bâ€²]diselenopheneâ€based Narrowâ€Bandgap Multibrominated Nonfullerene Acceptors. Solar Rrl, 2019, 3, 1800250.	3.1	46
90	A blade-coated highly efficient thick active layer for non-fullerene organic solar cells. Journal of Materials Chemistry A, 2019, 7, 22265-22273.	5.2	46

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91	Benzodifuran-alt-thienothiophene based low band gap copolymers: substituent effects on their molecular energy levels and photovoltaic properties. Polymer Chemistry, 2013, 4, 3047.	1.9	45
92	Exceeding 14% Efficiency for Solution-Processed Tandem Organic Solar Cells Combining Fullerene- and Nonfullerene-Based Subcells with Complementary Absorption. ACS Energy Letters, 2018, 3, 2566-2572.	8.8	45
93	Polymer Side-Chain Variation Induces Microstructural Disparity in Nonfullerene Solar Cells. Chemistry of Materials, 2019, 31, 6568-6577.	3.2	45
94	Surface modification of ZnO electron transport layers with glycine for efficient inverted non-fullerene polymer solar cells. Organic Electronics, 2019, 70, 25-31.	1.4	41
95	A novel wide bandgap conjugated polymer (2.0 eV) based on bithiazole for high efficiency polymer solar cells. Nano Energy, 2017, 34, 556-561.	8.2	40
96	A small molecule donor containing a non-fused ring core for all-small-molecule organic solar cells with high efficiency over 11%. Journal of Materials Chemistry A, 2019, 7, 3682-3690.	5.2	39
97	Overcoming the energy loss in asymmetrical non-fullerene acceptor-based polymer solar cells by halogenation of polymer donors. Journal of Materials Chemistry A, 2019, 7, 15404-15410.	5.2	39
98	Significant enhancement of the photovoltaic performance of organic small molecule acceptors <i>via</i> side-chain engineering. Journal of Materials Chemistry A, 2018, 6, 7988-7996.	5.2	38
99	Synthesis and photovoltaic properties of copolymers of carbazole and thiophene with conjugated side chain containing acceptor end groups. Polymer Chemistry, 2011, 2, 1678.	1.9	37
100	Efficient polymer solar cells based on a copolymer of meta-alkoxy-phenyl-substituted benzodithiophene and thieno[3,4-b]thiophene. Journal of Materials Chemistry A, 2016, 4, 10135-10141.	5.2	36
101	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and Highâ€Efficiency Semitransparent Organic Photovoltaics. Solar Rrl, 2020, 4, 2000328.	3.1	36
102	Narrow band gap Dâ€“A copolymer of indacenodithiophene and diketopyrrolopyrrole with deep HOMO level: Synthesis and application in fieldâ€effect transistors and polymer solar cells. Journal of Polymer Science Part A, 2012, 50, 371-377.	2.5	35
103	Synthesis and photovoltaic properties of a Dâ€“A copolymer of dithienosilole and fluorinated-benzotriazole. Polymer Chemistry, 2013, 4, 1467-1473.	1.9	35
104	A 1,1â€²-vinylene-fused indacenodithiophene-based low bandgap polymer for efficient polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 5106-5114.	5.2	34
105	Tuning Aggregation Behavior of Polymer Donor <i>via</i><scp>Molecularâ€Weight</scp> Control for Achieving 17.1% Efficiency Inverted Polymer Solar Cells. Chinese Journal of Chemistry, 2021, 39, 1941-1947.	2.6	33
106	Poly(4,8â€bis(2â€ethylhexyloxy)benzo[1,2â€b:4,5â€bâ€²]dithiophene vinylene): Synthesis, optical and photovoltaic properties. Journal of Polymer Science Part A, 2010, 48, 1822-1829.	2.5	31
107	A wide-bandgap polymer based on the alkylphenyl-substituted benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene unit with high power conversion efficiency of over 11%. Journal of Materials Chemistry A, 2018, 6, 16529-16536.	5.2	31
108	Synthesis and photovoltaic properties of a simple non-fused small molecule acceptor. Organic Electronics, 2018, 58, 133-138.	1.4	30

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109	High-performance organic solar cells based on a small molecule with thieno[3,2-b]thiophene as Ï€-bridge. Organic Electronics, 2018, 53, 273-279.	1.4	30
110	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Nonâ€Fullereneâ€Based Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 15054-15062.	7.2	30
111	Synthesis and photovoltaic properties of Dâ€"A copolymers of benzodithiophene and naphtho[2,3-c]thiophene-4,9-dione. Polymer Chemistry, 2012, 3, 99-104.	1.9	29
112	Copolymers based on thiazolothiazole-dithienosilole as hole-transporting materials for high efficient perovskite solar cells. Organic Electronics, 2016, 33, 142-149.	1.4	29
113	Efficient as-cast semi-transparent organic solar cells with efficiency over 9% and a high average visible transmittance of 27.6%. Physical Chemistry Chemical Physics, 2019, 21, 10660-10666.	1.3	29
114	Efficient non-fullerene polymer solar cells based on a wide bandgap polymer of meta-alkoxy-phenyl-substituted benzodithiophene and difluorobenzotriazole. Journal of Materials Chemistry A, 2017, 5, 19680-19686.	5.2	28
115	A non-fullerene acceptor based on alkylphenyl substituted benzodithiophene for high efficiency polymer solar cells with a small voltage loss and excellent stability. Journal of Materials Chemistry A, 2019, 7, 24366-24373.	5.2	28
116	Solution-Processable Organic Molecule for High-Performance Organic Solar Cells with Low Acceptor Content. ACS Applied Materials & Interfaces, 2015, 7, 24686-24693.	4.0	26
117	Efficient and thermally stable all-polymer solar cells based on a fluorinated wide-bandgap polymer donor with high crystallinity. Journal of Materials Chemistry A, 2018, 6, 16403-16411.	5.2	26
118	Passivated Metal Oxide n-Type Contacts for Efficient and Stable Organic Solar Cells. ACS Applied Energy Materials, 2020, 3, 1111-1118.	2.5	26
119	Enhanced efficiency in nonfullerene organic solar cells by tuning molecular order and domain characteristics. Nano Energy, 2020, 77, 105310.	8.2	25
120	A wide bandgap conjugated polymer donor based on alkoxyl-fluorophenyl substituted benzodithiophene for high performance non-fullerene polymer solar cells. Journal of Materials Chemistry A, 2019, 7, 1307-1314.	5.2	24
121	A narrow-bandgap donor polymer for highly efficient as-cast non-fullerene polymer solar cells with a high open circuit voltage. Organic Electronics, 2018, 58, 82-87.	1.4	22
122	A trifluoromethyl substituted wide bandgap conjugated polymer for non-fullerene polymer solar cells with 10.4% efficiency. Journal of Materials Chemistry A, 2018, 6, 6551-6558.	5.2	22
123	Synergistic Effects of Sideâ€Chain Engineering and Fluorination on Small Molecule Acceptors to Simultaneously Broaden Spectral Response and Minimize Voltage Loss for 13.8% Efficiency Organic Solar Cells. Solar Rrl, 2019, 3, 1900169.	3.1	22
124	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6â€‰% Efficiency Organic Solar Cells with Enhanced Fill Factor. Angewandte Chemie, 2021, 133, 2352-2359.	1.6	21
125	Modulating Crystallinity and Miscibility via Sideâ€chain Variation Enable High Performance <scp>Allâ€Smallâ€Molecule</scp> Organic Solar Cells. Chinese Journal of Chemistry, 2021, 39, 2147-2153.	2.6	21
126	A Noncovalently <scp>Fusedâ€Ring</scp> Asymmetric Electron Acceptor Enables Efficient Organic Solar Cells. Chinese Journal of Chemistry, 2021, 39, 2685-2691.	2.6	21

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127	Synthesis and photovoltaic properties of copolymers based on bithiophene and bithiazole. Journal of Polymer Science Part A, 2011, 49, 2746-2754.	2.5	20
128	A Nonâ€Fullerene Acceptor with Chlorinated Thienyl Conjugated Side Chains for Highâ€Performance Polymer Solar Cells via Toluene Processing. Chinese Journal of Chemistry, 2020, 38, 697-702.	2.6	20
129	Efficient all-polymer solar cells based on a narrow-bandgap polymer acceptor. Journal of Materials Chemistry C, 2020, 8, 16180-16187.	2.7	19
130	Highly efficient ternary solar cells with reduced non-radiative energy loss and enhanced stability <i>via</i> two compatible non-fullerene acceptors. Journal of Materials Chemistry A, 2022, 10, 15605-15613.	5.2	19
131	In-situ stabilization strategy for CsPbX3-Silicone resin composite with enhanced luminescence and stability. Nano Energy, 2020, 78, 105150.	8.2	18
132	Enhanced short circuit current density and efficiency of ternary organic solar cells by addition of a simple copolymer third component. Chemical Engineering Journal, 2021, 425, 130575.	6.6	17
133	A Nonâ€Conjugated Polymer Acceptor for Efficient and Thermally Stable Allâ€Polymer Solar Cells. Angewandte Chemie, 2020, 132, 20007-20012.	1.6	16
134	Manipulating Crystallization Kinetics of Conjugated Polymers in Nonfullerene Photovoltaic Blends toward Refined Morphologies and Higher Performances. Macromolecules, 2021, 54, 4030-4041.	2.2	16
135	Ternary organic solar cells with improved efficiency and stability enabled by compatible dual-acceptor strategy. Organic Electronics, 2021, 96, 106227.	1.4	16
136	A thieno[3,4-f]isoindole-5,7-dione based copolymer for polymer solar cells. Polymer Chemistry, 2013, 4, 536-541.	1.9	15
137	Improved photocurrent and efficiency of non-fullerene organic solar cells despite higher charge recombination. Journal of Materials Chemistry A, 2018, 6, 957-962.	5.2	15
138	A naphthodithiophene-based nonfullerene acceptor for high-performance polymer solar cells with a small energy loss. Journal of Materials Chemistry C, 2020, 8, 6513-6520.	2.7	15
139	13.4â€‰% Efficiency from Allâ€Smallâ€Molecule Organic Solar Cells Based on a Crystalline Donor with Chlorine and Trialkylsilyl Substitutions. ChemSusChem, 2021, 14, 3535-3543.	3.6	15
140	Optimizing the Alkyl Side-Chain Design of a Wide Band-Gap Polymer Donor for Attaining Nonfullerene Organic Solar Cells with High Efficiency Using a Nonhalogenated Solvent. Chemistry of Materials, 2021, 33, 5981-5990.	3.2	15
141	Axisymmetric and Asymmetric Naphthalene-Bisthienothiophene Based Nonfullerene Acceptors: On Constitutional Isomerization and Photovoltaic Performance. ACS Applied Energy Materials, 2020, 3, 5734-5744.	2.5	14
142	Polymerized small-molecule acceptors based on vinylene as Ï€-bridge for efficient all-polymer solar cells. Polymer, 2021, 230, 124104.	1.8	14
143	Modulating the nanoscale morphology on carboxylate-pyrazine containing terpolymer toward 17.8% efficiency organic solar cells with enhanced thermal stability. Chemical Engineering Journal, 2022, 446, 137424.	6.6	14
144	Effect of Branched Side Chains on the Physicochemical and Photovoltaic Properties of Poly(3â€hexylthiophene) Isomers. Macromolecular Chemistry and Physics, 2012, 213, 2267-2274.	1.1	12

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145	Direct Observation of the Charge Transfer States from a Non-Fullerene Organic Solar Cell with a Small Driving Force. Journal of Physical Chemistry Letters, 2021, 12, 10595-10602.	2.1	12
146	15.8% efficiency all-small-molecule solar cells enabled by a combination of side-chain engineering and polymer additive. Journal of Materials Chemistry A, 2022, 10, 10926-10934.	5.2	12
147	Effect of solvent additive on active layer morphologies and photovoltaic performance of polymer solar cells based on PBDTTT-C-T/PC71BM. RSC Advances, 2016, 6, 51924-51931.	1.7	11
148	Toward high open-circuit voltage by smart chain engineering in 2D-conjugated polymer for polymer solar cells. Solar Energy Materials and Solar Cells, 2016, 149, 162-169.	3.0	11
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