Ying-ping Zou

List of Publications by Year
in descending order

154 papers	15,782 citations	46918 47 h-index	17055 122 g-index
155 all docs	155 docs citations	155 times ranked	7587 citing authors

#	Article	IF	Citations
1	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. Joule, 2019, 3, 1140-1151.	11.7	4,052
2	Alkyl Chain Tuning of Small Molecule Acceptors for Efficient Organic Solar Cells. Joule, 2019, 3, 3020-3033.	11.7	763
3	A Thieno[3,4-<i>c</i>]pyrrole-4,6-dione-Based Copolymer for Efficient Solar Cells. Journal of the American Chemical Society, 2010, 132, 5330-5331.	6.6	747
4	High-efficiency organic solar cells with low non-radiative recombination loss and low energetic disorder. Nature Photonics, 2020, 14, 300-305.	15.6	713
5	Conjugated Polymer Photovoltaic Materials with Broad Absorption Band and High Charge Carrier Mobility. Advanced Materials, 2008, 20, 2952-2958.	11.1	632
6	Ultrafast fluorescence imaging in vivo with conjugated polymer fluorophores in the second near-infrared window. Nature Communications, 2014, 5, 4206.	5.8	470
7	Delocalization of exciton and electron wavefunction in non-fullerene acceptor molecules enables efficient organic solar cells. Nature Communications, 2020, 11, 3943.	5.8	458
8	Enabling low voltage losses and high photocurrent in fullerene-free organic photovoltaics. Nature Communications, 2019, 10, 570.	5.8	377
9	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	4.2	349
10	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. Joule, 2020, 4, 1236-1247.	11.7	344
11	Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. Energy and Environmental Science, 2020, 13, 2459-2466.	15.6	324
12	Fused Benzothiadiazole: A Building Block for nâ€Type Organic Acceptor to Achieve Highâ€Performance Organic Solar Cells. Advanced Materials, 2019, 31, e1807577.	11.1	297
13	Biological Imaging Using Nanoparticles of Small Organic Molecules with Fluorescence Emission at Wavelengths Longer than 1000â€…nm. Angewandte Chemie - International Edition, 2013, 52, 13002-13006.	7.2	261
14	Barrierless Free Charge Generation in the Highâ€Performance PM6:Y6 Bulk Heterojunction Nonâ€Fullerene Solar Cell. Advanced Materials, 2020, 32, e1906763.	11.1	258
15	A unified description of non-radiative voltage losses in organic solar cells. Nature Energy, 2021, 6, 799-806.	19.8	235
16	A-DAâ€²D-A non-fullerene acceptors for high-performance organic solar cells. Science China Chemistry, 2020, 63, 1352-1366.	4.2	226
17	Efficient All-Polymer Solar Cells based on a New Polymer Acceptor Achieving 10.3% Power Conversion Efficiency. ACS Energy Letters, 2019, 4, 417-422.	8.8	196
18	Low-Bandgap Non-fullerene Acceptors Enabling High-Performance Organic Solar Cells. ACS Energy Letters, 2021, 6, 598-608.	8.8	175

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19	Rational Tuning of Molecular Interaction and Energy Level Alignment Enables Highâ€Performance Organic Photovoltaics. Advanced Materials, 2019, 31, e1904215.	11.1	162
20	Thieno[3,2-<i>b</i>]pyrrolo-Fused Pentacyclic Benzotriazole-Based Acceptor for Efficient Organic Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 31985-31992.	4.0	161
21	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	4.2	157
22	Reducing Voltage Losses in the A-DAâ€²D-A Acceptor-Based Organic Solar Cells. CheM, 2020, 6, 2147-2161.	5.8	150
23	Asymmetric Alkoxy and Alkyl Substitution on Nonfullerene Acceptors Enabling Highâ€Performance Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2003141.	10.2	144
24	Achieving 14.11% efficiency of ternary polymer solar cells by simultaneously optimizing photon harvesting and exciton distribution. Journal of Materials Chemistry A, 2019, 7, 7843-7851.	5.2	130
25	Solution-processable n-doped graphene-containing cathode interfacial materials for high-performance organic solar cells. Energy and Environmental Science, 2019, 12, 3400-3411.	15.6	129
26	Emerging Approaches in Enhancing the Efficiency and Stability in Nonâ€Fullerene Organic Solar Cells. Advanced Energy Materials, 2020, 10, 2002746.	10.2	124
27	Selective Hole and Electron Transport in Efficient Quaternary Blend Organic Solar Cells. Joule, 2020, 4, 1790-1805.	11.7	110
28	Fluorination Enhances NIRâ€II Fluorescence of Polymer Dots for Quantitative Brain Tumor Imaging. Angewandte Chemie - International Edition, 2020, 59, 21049-21057.	7.2	108
29	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. Journal of Materials Chemistry A, 2019, 7, 25088-25101.	5.2	107
30	Development of quinoxaline based polymers for photovoltaic applications. Journal of Materials Chemistry C, 2017, 5, 1858-1879.	2.7	103
31	Achieving over 10% efficiency in a new acceptor ITTC and its blends with hexafluoroquinoxaline based polymers. Journal of Materials Chemistry A, 2017, 5, 11286-11293.	5.2	102
32	Tetrafluoroquinoxaline based polymers for non-fullerene polymer solar cells with efficiency over 9%. Nano Energy, 2016, 30, 312-320.	8.2	94
33	Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. Science China Chemistry, 2020, 63, 1159-1168.	4.2	92
34	A simple strategy to the side chain functionalization on the quinoxaline unit for efficient polymer solar cells. Chemical Communications, 2016, 52, 6881-6884.	2.2	79
35	Extraordinarily long diffusion length in PM6:Y6 organic solar cells. Journal of Materials Chemistry A, 2020, 8, 7854-7860.	5.2	74
36	High-Performance Ternary Organic Solar Cells with Controllable Morphology via Sequential Layer-by-Layer Deposition. ACS Applied Materials & Interfaces, 2020, 12, 13077-13086.	4.0	69

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37	Small-Molecule Electron Acceptors for Efficient Non-fullerene Organic Solar Cells. Frontiers in Chemistry, 2018, 6, 414.	1.8	62
38	Optimizing the conjugated side chains of quinoxaline based polymers for nonfullerene solar cells with 10.5% efficiency. Journal of Materials Chemistry A, 2018, 6, 3074-3083.	5.2	61
39	Asymmetric Non-Fullerene Small-Molecule Acceptors toward High-Performance Organic Solar Cells. ACS Central Science, 2021, 7, 1787-1797.	5.3	58
40	Effects of energetic disorder in bulk heterojunction organic solar cells. Energy and Environmental Science, 2022, 15, 2806-2818.	15.6	57
41	5H-dithieno[3,2-b:2â€²,3â€²-d]pyran-5-one unit yields efficient wide-bandgap polymer donors. Science Bulletin, 2019, 64, 1655-1657.	4.3	55
42	Semitransparent solar cells with over 12% efficiency based on a new low bandgap fluorinated small molecule acceptor. Materials Chemistry Frontiers, 2019, 3, 2483-2490.	3.2	55
43	New alkoxylphenyl substituted benzo[1,2-b:4,5-bâ€²] dithiophene-based polymers: synthesis and application in solar cells. Journal of Materials Chemistry A, 2013, 1, 10639.	5.2	53
44	A-Ï€-A structured non-fullerene acceptors for stable organic solar cells with efficiency over 17%. Science China Chemistry, 2022, 65, 1374-1382.	4.2	53
45	Efficient organic solar cells based on a new â€œY-seriesâ€•non-fullerene acceptor with an asymmetric electron-deficient-core. Chemical Communications, 2020, 56, 4340-4343.	2.2	51
46	Incorporation of Fluorine onto Different Positions of Phenyl Substituted Benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene Unit: Influence on Photovoltaic Properties. Macromolecules, 2015, 48, 4347-4356.	2.2	50
47	Recent advances in stability of organic solar cells. EnergyChem, 2021, 3, 100046.	10.1	50
48	Putting Order into PM6:Y6 Solar Cells to Reduce the Langevin Recombination in 400â€‰nm Thick Junction. Solar Rrl, 2020, 4, 2000498.	3.1	49
49	A Highâ€Mobility Lowâ€Bandgap Copolymer for Efficient Solar Cells. Macromolecular Chemistry and Physics, 2010, 211, 2555-2561.	1.1	48
50	Potassium-Presenting Zinc Oxide Surfaces Induce Vertical Phase Separation in Fullerene-Free Organic Photovoltaics. Nano Letters, 2020, 20, 715-721.	4.5	48
51	Hexafluoroquinoxaline Based Polymer for Nonfullerene Solar Cells Reaching 9.4% Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 18816-18825.	4.0	47
52	A Medium Bandgap Dâ€“A Copolymer Based on 4-Alkyl-3,5-difluorophenyl Substituted Quinoxaline Unit for High Performance Solar Cells. Macromolecules, 2018, 51, 2838-2846.	2.2	47
53	Realizing Efficient Charge/Energy Transfer and Charge Extraction in Fullerene-Free Organic Photovoltaics via a Versatile Third Component. Nano Letters, 2019, 19, 5053-5061.	4.5	47
54	Quinoxaline-Based Semiconducting Polymer Dots for in Vivo NIR-II Fluorescence Imaging. Macromolecules, 2019, 52, 5735-5740.	2.2	46

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55	Self-assembled polymeric micelles as amphiphilic particulate emulsifiers for controllable Pickering emulsions. Materials Chemistry Frontiers, 2019, 3, 356-364.	3.2	45
56	Borane Incorporation in a Non-Fullerene Acceptor To Tune Steric and Electronic Properties and Improve Organic Solar Cell Performance. ACS Applied Energy Materials, 2019, 2, 1229-1240.	2.5	43
57	Alkoxy substitution on IDT-Series and Y-Series non-fullerene acceptors yielding highly efficient organic solar cells. Journal of Materials Chemistry A, 2021, 9, 7481-7490.	5.2	42
58	Unraveling Urbach Tail Effects in High-Performance Organic Photovoltaics: Dynamic vs Static Disorder. ACS Energy Letters, 2022, 7, 1971-1979.	8.8	42
59	Solvent effect and device optimization of diketopyrrolopyrrole and carbazole copolymer based solar cells. Organic Electronics, 2010, 11, 1053-1058.	1.4	40
60	A New Electron Acceptor with <i>meta</i>â€Alkoxyphenyl Side Chain for Fullereneâ€Free Polymer Solar Cells with 9.3% Efficiency. Advanced Science, 2017, 4, 1700152.	5.6	40
61	Y6 and its derivatives: molecular design and physical mechanism. National Science Review, 2021, 8, nwab121.	4.6	40
62	The history and development of Y6. Organic Electronics, 2022, 102, 106436.	1.4	40
63	Burn-In Degradation Mechanism Identified for Small Molecular Acceptor-Based High-Efficiency Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 27433-27442.	4.0	38
64	An asymmetric small molecule acceptor for organic solar cells with a short circuit current density over 24 mA cm^{âˆ’2}. Journal of Materials Chemistry A, 2020, 8, 15984-15991.	5.2	37
65	Understanding the Effect of the Third Component PC₇₁BM on Nanoscale Morphology and Photovoltaic Properties of Ternary Organic Solar Cells. Solar Rrl, 2020, 4, 1900540.	3.1	37
66	A disorder-free conformation boosts phonon and charge transfer in an electron-deficient-core-based non-fullerene acceptor. Journal of Materials Chemistry A, 2020, 8, 8566-8574.	5.2	37
67	Effect of Fluorine Substitution on Photovoltaic Properties of Alkoxyphenyl Substituted Benzo[1,2-b:4,5-bâ€²]dithiophene-Based Small Molecules. ACS Applied Materials & Interfaces, 2015, 7, 25237-25246.	4.0	36
68	A new non-fullerene acceptor based on the heptacyclic benzotriazole unit for efficient organic solar cells. Journal of Energy Chemistry, 2020, 42, 169-173.	7.1	36
69	A-DAâ€²D-A Structured Organic Phototheranostics for NIR-II Fluorescence/Photoacoustic Imaging-Guided Photothermal and Photodynamic Synergistic Therapy. ACS Applied Materials & Interfaces, 2022, 14, 18043-18052.	4.0	35
70	Synthesis of a Perylene Diimide Dimer with Pyrrolic Nâ€"H Bonds and Nâ€Functionalized Derivatives for Organic Fieldâ€Effect Transistors and Organic Solar Cells. European Journal of Organic Chemistry, 2018, 2018, 4592-4599.	1.2	34
71	Vertical Miscibility of Bulk Heterojunction Films Contributes to High Photovoltaic Performance. Advanced Materials Interfaces, 2020, 7, 2000577.	1.9	33
72	Tradeâ€Off between Exciton Dissociation and Carrier Recombination and Dielectric Properties in Y6â€Sensitized Nonfullerene Ternary Organic Solar Cells. Energy Technology, 2020, 8, 1900924.	1.8	32

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73	Understanding the Role of Order in Yâ€Series Nonâ€Fullerene Solar Cells to Realize High Openâ€Circuit Voltages. Advanced Energy Materials, 2022, 12, .	10.2	32
74	Modulating molecular aggregation by facile heteroatom substitution of diketopyrrolopyrrole based small molecules for efficient organic solar cells. Journal of Materials Chemistry A, 2015, 3, 24349-24357.	5.2	31
75	Spin-coated 10.46% and blade-coated 9.52% of ternary semitransparent organic solar cells with 26.56% average visible transmittance. Solar Energy, 2020, 204, 660-666.	2.9	31
76	Nonhalogenated Solvent-Processed All-Polymer Solar Cells over 7.4% Efficiency from Quinoxaline-Based Polymers. ACS Applied Materials & Interfaces, 2018, 10, 41318-41325.	4.0	30
77	Toward a Universally Compatible Nonâ€Fullerene Acceptor: Multiâ€Gram Synthesis, Solvent Vapor Annealing Optimization, and BDTâ€Based Polymer Screening. Solar Rrl, 2018, 2, 1800143.	3.1	29
78	A chlorinated non-fullerene acceptor for efficient polymer solar cells. Chinese Chemical Letters, 2019, 30, 2343-2346.	4.8	29
79	A new non-fullerene acceptor based on the combination of a heptacyclic benzothiadiazole unit and a thiophene-fused end group achieving over 13% efficiency. Physical Chemistry Chemical Physics, 2019, 21, 26557-26563.	1.3	28
80	Binary non-fullerene-based polymer solar cells with a 430 nm thick active layer showing 15.39% efficiency and 73.38% fill factor. Journal of Materials Chemistry A, 2021, 9, 7129-7136.	5.2	28
81	High performance polymer solar cells based on a two dimensional conjugated polymer from alkylthienyl-substituted benzodifuran and benzothiadiazole. Polymer Chemistry, 2014, 5, 5002-5008.	1.9	27
82	Influence of PEIE interlayer on detectivity of red-light sensitive organic non-fullerene photodetectors with reverse structure. Organic Electronics, 2020, 77, 105527.	1.4	27
83	Enhanced efficiency in nonfullerene organic solar cells by tuning molecular order and domain characteristics. Nano Energy, 2020, 77, 105310.	8.2	25
84	Correlating the Molecular Structure of Aâ€DAâ€²Dâ€A Type Nonâ€Fullerene Acceptors to Its Heat Transfer and Charge Transport Properties in Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2101627.	7.8	25
85	Furan-containing double tetraoxa[7]helicene and its radical cation. Chemical Communications, 2020, 56, 15181-15184.	2.2	24
86	High efficiency ternary organic solar cells enabled by compatible dual-donor strategy with planar conjugated structures. Science China Chemistry, 2020, 63, 917-923.	4.2	24
87	Explaining the Fillâ€Factor and Photocurrent Losses of Nonfullerene Acceptorâ€Based Solar Cells by Probing the Longâ€Range Charge Carrier Diffusion and Drift Lengths. Advanced Energy Materials, 2021, 11, 2100804.	10.2	23
88	Compatibility between Solubility and Enhanced Crystallinity of Benzotriazole-Based Small Molecular Acceptors with Less Bulky Alkyl Chains for Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 36053-36061.	4.0	23
89	Unveiling the crystalline packing of Y6 in thin films by thermally induced â€œbackbone-onâ€• orientation. Journal of Materials Chemistry A, 2021, 9, 17030-17038.	5.2	22
90	Optimizing side chains on different nitrogen aromatic rings achieving 17% efficiency for organic photovoltaics. Journal of Energy Chemistry, 2022, 65, 173-178.	7.1	22

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91	Screening Quinoxaline-Type Donor Polymers for Roll-to-Roll Processing Compatible Organic Photovoltaics. ACS Applied Polymer Materials, 2019, 1, 2168-2176.	2.0	21
92	Diflurobenzothiadiazole core-based noncovalently fused small molecule acceptor exhibiting over 12% efficiency and high fill factor. Journal of Energy Chemistry, 2020, 51, 7-13.	7.1	21
93	An Overview of Highâ€Performance Indoor Organic Photovoltaics. ChemSusChem, 2021, 14, 3428-3448.	3.6	21
94	An asymmetric small molecule based on thieno[2,3-f]benzofuran for efficient organic solar cells. Organic Electronics, 2016, 35, 87-94.	1.4	20
95	Realizing 8.6% Efficiency from Nonâ€Halogenated Solvent Processed Additive Free All Polymer Solar Cells with a Quinoxaline Based Polymer. Solar Rrl, 2019, 3, 1800340.	3.1	20
96	Optimising Non-Patterned MoO3/Ag/MoO3 Anode for High-Performance Semi-Transparent Organic Solar Cells towards Window Applications. Nanomaterials, 2020, 10, 1759.	1.9	20
97	Benzyl and fluorinated benzyl side chains for perylene diimide non-fullerene acceptors. Materials Chemistry Frontiers, 2018, 2, 2272-2276.	3.2	19
98	Quantifying Quasiâ€Fermi Level Splitting and Openâ€Circuit Voltage Losses in Highly Efficient Nonfullerene Organic Solar Cells. Solar Rrl, 2021, 5, 2000649.	3.1	19
99	Simultaneously Enhancing the <i>J</i>_{sc} and <i>V</i>_{oc} of Ternary Organic Solar Cells by Incorporating a Medium-Band-Gap Acceptor. ACS Applied Energy Materials, 2021, 4, 3480-3486.	2.5	19
100	Effects of Oxygen Position in the Alkoxy Substituents on the Photovoltaic Performance of A-DAâ€²D-A Type Pentacyclic Small Molecule Acceptors. ACS Energy Letters, 2022, 7, 2373-2381.	8.8	19
101	New m-alkoxy-p-fluorophenyl difluoroquinoxaline based polymers in efficient fullerene solar cells with high fill factor. Organic Electronics, 2017, 50, 7-15.	1.4	18
102	Enabling Efficient Tandem Organic Photovoltaics with High Fill Factor via Reduced Charge Recombination. ACS Energy Letters, 2019, 4, 1535-1540.	8.8	18
103	Polymers from phenyl-substituted benzodithiophene and tetrafluoridequinoxaline with high open circuit voltage and high fill factor. Organic Electronics, 2016, 37, 287-293.	1.4	17
104	Fine-tuning the energy levels and morphology <i>via</i> fluorination and thermal annealing enable high efficiency non-fullerene organic solar cells. Materials Chemistry Frontiers, 2020, 4, 3310-3318.	3.2	17
105	Precise fluorination of polymeric donors towards efficient non-fullerene organic solar cells with balanced open circuit voltage, short circuit current and fill factor. Journal of Materials Chemistry A, 2021, 9, 14752-14757.	5.2	17
106	Vinylene Ï€-bridge: A simple building block for ultra-narrow bandgap nonfullerene acceptors enable 14.2% efficiency in binary organic solar cells. Dyes and Pigments, 2021, 188, 109171.	2.0	17
107	Over 13% Efficient Organic Solar Cells Based on Lowâ€Cost Pentacyclic Aâ€DAâ€²Dâ€Aâ€Type Nonfullerene Acceptor. Solar Rrl, 2021, 5, 2100281.	3.1	17
108	Achieving ultra-narrow bandgap non-halogenated non-fullerene acceptors <i>via</i> vinylene Ï€-bridges for efficient organic solar cells. Materials Advances, 2021, 2, 2132-2140.	2.6	16

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109	Intrachain and Interchain Excitonâ€“Exciton Annihilation in Donorâ€“Acceptor Copolymers. Journal of Physical Chemistry Letters, 2021, 12, 3928-3933.	2.1	16
110	S-Shaped Double Helicene Diimides: Synthesis, Self-Assembly, and Mechanofluorochromism. Organic Letters, 2021, 23, 6183-6188.	2.4	16
111	Manipulating molecular aggregation and crystalline behavior of Aâ€DA'Dâ€A type acceptors by side chain engineering in organic solar cells. Aggregate, 2022, 3, .	5.2	16
112	Alkyl substituted naphtho[1, 2-b: 5, 6-bâ€²]difuran as a new building block towards efficient polymer solar cells. RSC Advances, 2013, 3, 5366.	1.7	15
113	Interface Modification Enabled by Atomic Layer Deposited Ultraâ€Thin Titanium Oxide for Highâ€Efficiency and Semitransparent Organic Solar Cells. Solar Rrl, 2020, 4, 2000497.	3.1	15
114	Fluorination Enhances NIRâ€II Fluorescence of Polymer Dots for Quantitative Brain Tumor Imaging. Angewandte Chemie, 2020, 132, 21235-21243.	1.6	15
115	Theoretical exploration of optoelectronic performance of PM6:Y6 series-based organic solar cells. Surfaces and Interfaces, 2021, 26, 101385.	1.5	15
116	Asymmetric medium bandgap copolymers and narrow bandgap small-molecule acceptor with over 7% efficiency. Organic Electronics, 2017, 45, 42-48.	1.4	13
117	Side-chain fluorination on the pyrido[3,4-b]pyrazine unit towards efficient photovoltaic polymers. Science China Chemistry, 2018, 61, 206-214.	4.2	13
118	Reliability of charge carrier recombination data determined with charge extraction methods. Journal of Applied Physics, 2019, 126, .	1.1	13
119	Ternary solvent-processed efficient organic solar cells based on a new A-DAâ€²D-A acceptor derivative employing the 3rd-position branching side chains on pyrroles. Chinese Chemical Letters, 2021, 32, 229-233.	4.8	13
120	Highly sensitive photoelectrochemical sensing platform based on PM6:Y6 p-n heterojunction for detection of MCF-7 cells. Sensors and Actuators B: Chemical, 2022, 363, 131814.	4.0	12
121	Novel photoelectrochemical immunosensor for MCF-7 cell detection based on n-p organic semiconductor heterojunction. Chinese Chemical Letters, 2022, 33, 2954-2958.	4.8	11
122	Synthesis and Photovoltaic Investigation of 8,10-Bis(2-octyldodecyl)-8,10-dihydro-9<i>H</i>-bisthieno[2â€²,3â€²:7,8;3â€³,2â€³:5,6]naphtho[2,3-<i>d</i>]imidazol-9-one Based Conjugated Polymers Using a Nonfullerene Acceptor. ACS Applied Energy Materials, 2020, 3, 495-505.	2.5	10
123	Interplay between Intrachain and Interchain Excited States in Donorâ€“Acceptor Copolymers. Journal of Physical Chemistry B, 2021, 125, 7470-7476.	1.2	10
124	Alkyl side chain engineering enables high performance as-cast organic solar cells of over 17% efficiency. Fundamental Research, 2023, 3, 611-617.	1.6	10
125	Random D1â€“A1â€“D1â€“A2 terpolymers based on diketopyrrolopyrrole and benzothiadiazolequinoxaline (BTQx) derivatives for high-performance polymer solar cells. New Journal of Chemistry, 2019, 43, 5325-5334.	1.4	9
126	Indole-based Aâ€“DAâ€²Dâ€“A type acceptor-based organic solar cells achieve efficiency over 15 % with low energy loss. Sustainable Energy and Fuels, 2020, 4, 6203-6211.	2.5	8

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127	From Generation to Extraction: A Time-Resolved Investigation of Photophysical Processes in Non-fullerene Organic Solar Cells. Journal of Physical Chemistry C, 2020, 124, 21283-21292.	1.5	8
128	Aâ€“DAâ€²Dâ€“A Nonfullerene Acceptor Obtained by Fine-Tuning Side Chains on Pyrroles Enables PBDB-T-Based Organic Solar Cells with over 14% Efficiency. ACS Applied Energy Materials, 2020, 3, 11981-11991.	2.5	8
129	Electron-Deficient Contorted Polycyclic Aromatic Hydrocarbon via One-Pot Annulative Ï€-Extension of Perylene Diimide. Organic Letters, 2022, 24, 2414-2419.	2.4	8
130	Naphthodifuran-based zigzag-type polycyclic arene with conjugated side chains for efficient photovoltaics. Physical Chemistry Chemical Physics, 2017, 19, 14289-14295.	1.3	7
131	Fine-tuning blend morphology via alkylthio side chain engineering towards high performance non-fullerene polymer solar cells. Chemical Physics Letters, 2018, 696, 19-25.	1.2	7
132	A new chlorinated non-fullerene acceptor based organic photovoltaic cells over 12% efficiency. Journal of Central South University, 2020, 27, 3581-3593.	1.2	7
133	Phosphorus-doped h-boron nitride as an efficient metal-free catalyst for direct dehydrogenation of ethylbenzene. Catalysis Science and Technology, 2021, 11, 5590-5597.	2.1	7
134	Fine-tuning of non-fullerene acceptor gives over 14% efficiency for organic solar cells. Dyes and Pigments, 2020, 181, 108559.	2.0	7
135	Synthesize non-fullerene acceptors of five fused-ring by modifying side chain. Solar Energy, 2019, 191, 566-573.	2.9	6
136	A wide-bandgap copolymer donor based on a phenanthridin-6(5<i>H</i>)-one unit. Materials Chemistry Frontiers, 2019, 3, 2686-2689.	3.2	6
137	Ternary organic solar cells: Improved optical and morphological properties allow an enhanced efficiency. Chinese Chemical Letters, 2021, 32, 1359-1362.	4.8	6
138	Monolayer Nanosheets Exfoliated from Cage-Based Cationic Metalâ€“Organic Frameworks. Inorganic Chemistry, 2022, 61, 1521-1529.	1.9	6
139	New wide band gap Ï€-conjugated copolymers based on anthra[1,2-b: 4,3-b': 6,7-c''] trithiophene-8,12-dione for high performance non-fullerene polymer solar cells with an efficiency of 15.07 %. Polymer, 2022, 251, 124892.	1.8	6
140	Modifying side chain of non-fullerene acceptors to obtain efficient organic solar cells with high fill factor. Chemical Physics, 2021, 546, 111172.	0.9	5
141	A new fluoropyrido[3,4-b]pyrazine based polymer for efficient photovoltaics. Polymer Chemistry, 2017, 8, 2227-2234.	1.9	4
142	Synthesis and photovoltaic properties of a non-fullerene acceptor with F-phenylalkoxy as a side chain. New Journal of Chemistry, 2018, 42, 19279-19284.	1.4	4
143	Molecular Tuning of Titanium Complexes with Controllable Work Function for Efficient Organic Photovoltaics. Journal of Physical Chemistry C, 2019, 123, 20800-20807.	1.5	4
144	Synthesis and photovoltaic properties of alkylthiothiophene modified benzodithiophene polymer. Chemical Physics Letters, 2019, 730, 271-276.	1.2	4

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145	Binary and Ternary Polymer Solar Cells Based on a Wide Bandgap Dâ€A Copolymer Donor and Two Nonfullerene Acceptors with Complementary Absorption Spectral. ChemSusChem, 2021, 14, 4731-4740.	3.6	3
146	Bromination and increasing the molecular conjugation length of the non-fullerene small-molecule acceptor based on benzotriazole for efficient organic photovoltaics. RSC Advances, 2021, 11, 13571-13578.	1.7	3
147	<i>In situ</i> growth of phosphorus-doped boron nitride on commercial alumina as a robust catalyst for direct dehydrogenation of ethylbenzene. Catalysis Science and Technology, 2022, 12, 962-968.	2.1	3
148	Regulating the properties of small molecular acceptors with different end groups. Solar Energy, 2021, 223, 100-105.	2.9	2
149	Synthesis and characterization of red-emission PPV copolymers containing fluorenone unit. Central South University, 2010, 17, 269-276.	0.5	1
150	Side chain engineering for the regulation of quinoxaline based D-A copolymers. Dyes and Pigments, 2019, 162, 487-493.	2.0	1
151	A new low-bandgap polymer acceptor based on benzotriazole for efficient all-polymer solar cells. Journal of Central South University, 2021, 28, 1919-1931.	1.2	1
152	New Donorâ€“Acceptor Random Terpolymers with Wide Absorption Spectra of 300â€“1000 nm for Photovoltaic Applications. Doklady Physical Chemistry, 2020, 495, 196-200.	0.2	1
153	End group engineering enabling organic solar cells with high open-circuit voltage. Journal Physics D: Applied Physics, 2022, 55, 374002.	1.3	1
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