

# Ying-ping Zou

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8091680/publications.pdf>

Version: 2024-02-01

154  
papers

15,782  
citations

47006

47  
h-index

17105

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. <i>Joule</i> , 2019, 3, 1140-1151.	24.0	4,052
2	Alkyl Chain Tuning of Small Molecule Acceptors for Efficient Organic Solar Cells. <i>Joule</i> , 2019, 3, 3020-3033.	24.0	763
3	A Thieno[3,4- <i>c</i> ]pyrrole-4,6-dione-Based Copolymer for Efficient Solar Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 5330-5331.	13.7	747
4	High-efficiency organic solar cells with low non-radiative recombination loss and low energetic disorder. <i>Nature Photonics</i> , 2020, 14, 300-305.	31.4	713
5	Conjugated Polymer Photovoltaic Materials with Broad Absorption Band and High Charge Carrier Mobility. <i>Advanced Materials</i> , 2008, 20, 2952-2958.	21.0	632
6	Ultrafast fluorescence imaging in vivo with conjugated polymer fluorophores in the second near-infrared window. <i>Nature Communications</i> , 2014, 5, 4206.	12.8	470
7	Delocalization of exciton and electron wavefunction in non-fullerene acceptor molecules enables efficient organic solar cells. <i>Nature Communications</i> , 2020, 11, 3943.	12.8	458
8	Enabling low voltage losses and high photocurrent in fullerene-free organic photovoltaics. <i>Nature Communications</i> , 2019, 10, 570.	12.8	377
9	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022, 65, 224-268.	8.2	349
10	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. <i>Joule</i> , 2020, 4, 1236-1247.	24.0	344
11	Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. <i>Energy and Environmental Science</i> , 2020, 13, 2459-2466.	30.8	324
12	Fused Benzothiadiazole: A Building Block for n-Type Organic Acceptor to Achieve High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1807577.	21.0	297
13	Biological Imaging Using Nanoparticles of Small Organic Molecules with Fluorescence Emission at Wavelengths Longer than 1000 nm. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13002-13006.	13.8	261
14	Barrierless Free Charge Generation in the High-Performance PM6:Y6 Bulk Heterojunction Non-Fullerene Solar Cell. <i>Advanced Materials</i> , 2020, 32, e1906763.	21.0	258
15	A unified description of non-radiative voltage losses in organic solar cells. <i>Nature Energy</i> , 2021, 6, 799-806.	39.5	235
16	A-DA <sup>2</sup> D-A non-fullerene acceptors for high-performance organic solar cells. <i>Science China Chemistry</i> , 2020, 63, 1352-1366.	8.2	226
17	Efficient All-Polymer Solar Cells based on a New Polymer Acceptor Achieving 10.3% Power Conversion Efficiency. <i>ACS Energy Letters</i> , 2019, 4, 417-422.	17.4	196
18	Low-Bandgap Non-fullerene Acceptors Enabling High-Performance Organic Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 598-608.	17.4	175

#	ARTICLE	IF	CITATIONS
19	Rational Tuning of Molecular Interaction and Energy Level Alignment Enables High-Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1904215.	21.0	162
20	Thieno[3,2- <i>b</i> ]pyrrolo-Fused Pentacyclic Benzotriazole-Based Acceptor for Efficient Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31985-31992.	8.0	161
21	Recent progress in organic solar cells (Part II device engineering). <i>Science China Chemistry</i> , 2022, 65, 1457-1497.	8.2	157
22	Reducing Voltage Losses in the A-DA <sup>2</sup> D-A Acceptor-Based Organic Solar Cells. <i>CheM</i> , 2020, 6, 2147-2161.	11.7	150
23	Asymmetric Alkoxy and Alkyl Substitution on Nonfullerene Acceptors Enabling High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003141.	19.5	144
24	Achieving 14.11% efficiency of ternary polymer solar cells by simultaneously optimizing photon harvesting and exciton distribution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7843-7851.	10.3	130
25	Solution-processable n-doped graphene-containing cathode interfacial materials for high-performance organic solar cells. <i>Energy and Environmental Science</i> , 2019, 12, 3400-3411.	30.8	129
26	Emerging Approaches in Enhancing the Efficiency and Stability in Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2002746.	19.5	124
27	Selective Hole and Electron Transport in Efficient Quaternary Blend Organic Solar Cells. <i>Joule</i> , 2020, 4, 1790-1805.	24.0	110
28	Fluorination Enhances NIR-Fluorescence of Polymer Dots for Quantitative Brain Tumor Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21049-21057.	13.8	108
29	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25088-25101.	10.3	107
30	Development of quinoxaline based polymers for photovoltaic applications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1858-1879.	5.5	103
31	Achieving over 10% efficiency in a new acceptor ITTC and its blends with hexafluoroquinoxaline based polymers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11286-11293.	10.3	102
32	Tetrafluoroquinoxaline based polymers for non-fullerene polymer solar cells with efficiency over 9%. <i>Nano Energy</i> , 2016, 30, 312-320.	16.0	94
33	Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. <i>Science China Chemistry</i> , 2020, 63, 1159-1168.	8.2	92
34	A simple strategy to the side chain functionalization on the quinoxaline unit for efficient polymer solar cells. <i>Chemical Communications</i> , 2016, 52, 6881-6884.	4.1	79
35	Extraordinarily long diffusion length in PM6:Y6 organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7854-7860.	10.3	74
36	High-Performance Ternary Organic Solar Cells with Controllable Morphology via Sequential Layer-by-Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13077-13086.	8.0	69

#	ARTICLE	IF	CITATIONS
37	Small-Molecule Electron Acceptors for Efficient Non-fullerene Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2018, 6, 414.	3.6	62
38	Optimizing the conjugated side chains of quinoxaline based polymers for nonfullerene solar cells with 10.5% efficiency. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3074-3083.	10.3	61
39	Asymmetric Non-Fullerene Small-Molecule Acceptors toward High-Performance Organic Solar Cells. <i>ACS Central Science</i> , 2021, 7, 1787-1797.	11.3	58
40	Effects of energetic disorder in bulk heterojunction organic solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 2806-2818.	30.8	57
41	5H-dithieno[3,2-b:2',3'-d]pyran-5-one unit yields efficient wide-bandgap polymer donors. <i>Science Bulletin</i> , 2019, 64, 1655-1657.	9.0	55
42	Semitransparent solar cells with over 12% efficiency based on a new low bandgap fluorinated small molecule acceptor. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2483-2490.	5.9	55
43	New alkoxyphenyl substituted benzo[1,2-b:4,5-b']dithiophene-based polymers: synthesis and application in solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10639.	10.3	53
44	A $\pi$ -A structured non-fullerene acceptors for stable organic solar cells with efficiency over 17%. <i>Science China Chemistry</i> , 2022, 65, 1374-1382.	8.2	53
45	Efficient organic solar cells based on a new $\alpha$ -series non-fullerene acceptor with an asymmetric electron-deficient-core. <i>Chemical Communications</i> , 2020, 56, 4340-4343.	4.1	51
46	Incorporation of Fluorine onto Different Positions of Phenyl Substituted Benzo[1,2-b:4,5-b']dithiophene Unit: Influence on Photovoltaic Properties. <i>Macromolecules</i> , 2015, 48, 4347-4356.	4.8	50
47	Recent advances in stability of organic solar cells. <i>EnergyChem</i> , 2021, 3, 100046.	19.1	50
48	Putting Order into PM6:Y6 Solar Cells to Reduce the Langevin Recombination in 400-nm Thick Junction. <i>Solar Rrl</i> , 2020, 4, 2000498.	5.8	49
49	A High-Mobility Low-Bandgap Copolymer for Efficient Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 2555-2561.	2.2	48
50	Potassium-Presenting Zinc Oxide Surfaces Induce Vertical Phase Separation in Fullerene-Free Organic Photovoltaics. <i>Nano Letters</i> , 2020, 20, 715-721.	9.1	48
51	Hexafluoroquinoxaline Based Polymer for Nonfullerene Solar Cells Reaching 9.4% Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18816-18825.	8.0	47
52	A Medium Bandgap $\pi$ -A Copolymer Based on 4-Alkyl-3,5-difluorophenyl Substituted Quinoxaline Unit for High Performance Solar Cells. <i>Macromolecules</i> , 2018, 51, 2838-2846.	4.8	47
53	Realizing Efficient Charge/Energy Transfer and Charge Extraction in Fullerene-Free Organic Photovoltaics via a Versatile Third Component. <i>Nano Letters</i> , 2019, 19, 5053-5061.	9.1	47
54	Quinoxaline-Based Semiconducting Polymer Dots for in Vivo NIR-II Fluorescence Imaging. <i>Macromolecules</i> , 2019, 52, 5735-5740.	4.8	46

#	ARTICLE	IF	CITATIONS
55	Self-assembled polymeric micelles as amphiphilic particulate emulsifiers for controllable Pickering emulsions. <i>Materials Chemistry Frontiers</i> , 2019, 3, 356-364.	5.9	45
56	Borane Incorporation in a Non-Fullerene Acceptor To Tune Steric and Electronic Properties and Improve Organic Solar Cell Performance. <i>ACS Applied Energy Materials</i> , 2019, 2, 1229-1240.	5.1	43
57	Alkoxy substitution on IDT-Series and Y-Series non-fullerene acceptors yielding highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7481-7490.	10.3	42
58	Unraveling Urbach Tail Effects in High-Performance Organic Photovoltaics: Dynamic vs Static Disorder. <i>ACS Energy Letters</i> , 2022, 7, 1971-1979.	17.4	42
59	Solvent effect and device optimization of diketopyrrolopyrrole and carbazole copolymer based solar cells. <i>Organic Electronics</i> , 2010, 11, 1053-1058.	2.6	40
60	A New Electron Acceptor with <i>meta</i> -Alkoxyphenyl Side Chain for Fullerene-Free Polymer Solar Cells with 9.3% Efficiency. <i>Advanced Science</i> , 2017, 4, 1700152.	11.2	40
61	Y6 and its derivatives: molecular design and physical mechanism. <i>National Science Review</i> , 2021, 8, nwab121.	9.5	40
62	The history and development of Y6. <i>Organic Electronics</i> , 2022, 102, 106436.	2.6	40
63	Burn-In Degradation Mechanism Identified for Small Molecular Acceptor-Based High-Efficiency Nonfullerene Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27433-27442.	8.0	38
64	An asymmetric small molecule acceptor for organic solar cells with a short circuit current density over 24 mA cm <sup>-2</sup> . <i>Journal of Materials Chemistry A</i> , 2020, 8, 15984-15991.	10.3	37
65	Understanding the Effect of the Third Component PC <sub>71</sub> BM on Nanoscale Morphology and Photovoltaic Properties of Ternary Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900540.	5.8	37
66	A disorder-free conformation boosts phonon and charge transfer in an electron-deficient-core-based non-fullerene acceptor. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8566-8574.	10.3	37
67	Effect of Fluorine Substitution on Photovoltaic Properties of Alkoxyphenyl Substituted Benzo[1,2-b:4,5-b']dithiophene-Based Small Molecules. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25237-25246.	8.0	36
68	A new non-fullerene acceptor based on the heptacyclic benzotriazole unit for efficient organic solar cells. <i>Journal of Energy Chemistry</i> , 2020, 42, 169-173.	12.9	36
69	A-DA <sup>2</sup> D-A Structured Organic Phototheranostics for NIR-II Fluorescence/Photoacoustic Imaging-Guided Photothermal and Photodynamic Synergistic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 18043-18052.	8.0	35
70	Synthesis of a Perylene Diimide Dimer with Pyrrolic N-H Bonds and N-Functionalized Derivatives for Organic Field-Effect Transistors and Organic Solar Cells. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4592-4599.	2.4	34
71	Vertical Miscibility of Bulk Heterojunction Films Contributes to High Photovoltaic Performance. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000577.	3.7	33
72	Trade-Off between Exciton Dissociation and Carrier Recombination and Dielectric Properties in Y6-Sensitized Nonfullerene Ternary Organic Solar Cells. <i>Energy Technology</i> , 2020, 8, 1900924.	3.8	32

#	ARTICLE	IF	CITATIONS
73	Understanding the Role of Order in Y-Series Non-Fullerene Solar Cells to Realize High Open-Circuit Voltages. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	32
74	Modulating molecular aggregation by facile heteroatom substitution of diketopyrrolopyrrole based small molecules for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24349-24357.	10.3	31
75	Spin-coated 10.46% and blade-coated 9.52% of ternary semitransparent organic solar cells with 26.56% average visible transmittance. <i>Solar Energy</i> , 2020, 204, 660-666.	6.1	31
76	Nonhalogenated Solvent-Processed All-Polymer Solar Cells over 7.4% Efficiency from Quinoxaline-Based Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 41318-41325.	8.0	30
77	Toward a Universally Compatible Non-Fullerene Acceptor: Multi-Gram Synthesis, Solvent Vapor Annealing Optimization, and BDT-Based Polymer Screening. <i>Solar Rrl</i> , 2018, 2, 1800143.	5.8	29
78	A chlorinated non-fullerene acceptor for efficient polymer solar cells. <i>Chinese Chemical Letters</i> , 2019, 30, 2343-2346.	9.0	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. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26557-26563.	2.8	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. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7129-7136.	10.3	28
81	High performance polymer solar cells based on a two dimensional conjugated polymer from alkylthienyl-substituted benzodifuran and benzothiadiazole. <i>Polymer Chemistry</i> , 2014, 5, 5002-5008.	3.9	27
82	Influence of PEIE interlayer on detectivity of red-light sensitive organic non-fullerene photodetectors with reverse structure. <i>Organic Electronics</i> , 2020, 77, 105527.	2.6	27
83	Enhanced efficiency in nonfullerene organic solar cells by tuning molecular order and domain characteristics. <i>Nano Energy</i> , 2020, 77, 105310.	16.0	25
84	Correlating the Molecular Structure of A-D-A Type Non-Fullerene Acceptors to Its Heat Transfer and Charge Transport Properties in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2101627.	14.9	25
85	Furan-containing double tetraoxa[7]helicene and its radical cation. <i>Chemical Communications</i> , 2020, 56, 15181-15184.	4.1	24
86	High efficiency ternary organic solar cells enabled by compatible dual-donor strategy with planar conjugated structures. <i>Science China Chemistry</i> , 2020, 63, 917-923.	8.2	24
87	Explaining the Fill-Factor and Photocurrent Losses of Nonfullerene Acceptor-Based Solar Cells by Probing the Long-Range Charge Carrier Diffusion and Drift Lengths. <i>Advanced Energy Materials</i> , 2021, 11, 2100804.	19.5	23
88	Compatibility between Solubility and Enhanced Crystallinity of Benzotriazole-Based Small Molecular Acceptors with Less Bulky Alkyl Chains for Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36053-36061.	8.0	23
89	Unveiling the crystalline packing of Y6 in thin films by thermally induced $\pi$ -backbone-on-orientation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17030-17038.	10.3	22
90	Optimizing side chains on different nitrogen aromatic rings achieving 17% efficiency for organic photovoltaics. <i>Journal of Energy Chemistry</i> , 2022, 65, 173-178.	12.9	22

#	ARTICLE	IF	CITATIONS
91	Screening Quinoxaline-Type Donor Polymers for Roll-to-Roll Processing Compatible Organic Photovoltaics. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2168-2176.	4.4	21
92	Difluorobenzothiadiazole core-based noncovalently fused small molecule acceptor exhibiting over 12% efficiency and high fill factor. <i>Journal of Energy Chemistry</i> , 2020, 51, 7-13.	12.9	21
93	An Overview of High-Performance Indoor Organic Photovoltaics. <i>ChemSusChem</i> , 2021, 14, 3428-3448.	6.8	21
94	An asymmetric small molecule based on thieno[2,3-f]benzofuran for efficient organic solar cells. <i>Organic Electronics</i> , 2016, 35, 87-94.	2.6	20
95	Realizing 8.6% Efficiency from Non-Halogenated Solvent Processed Additive Free All Polymer Solar Cells with a Quinoxaline Based Polymer. <i>Solar Rrl</i> , 2019, 3, 1800340.	5.8	20
96	Optimising Non-Patterned MoO <sub>3</sub> /Ag/MoO <sub>3</sub> Anode for High-Performance Semi-Transparent Organic Solar Cells towards Window Applications. <i>Nanomaterials</i> , 2020, 10, 1759.	4.1	20
97	Benzyl and fluorinated benzyl side chains for perylene diimide non-fullerene acceptors. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2272-2276.	5.9	19
98	Quantifying Quasi-Fermi Level Splitting and Open-Circuit Voltage Losses in Highly Efficient Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2000649.	5.8	19
99	Simultaneously Enhancing the $J_{sc}$ and $V_{oc}$ of Ternary Organic Solar Cells by Incorporating a Medium-Band-Gap Acceptor. <i>ACS Applied Energy Materials</i> , 2021, 4, 3480-3486.	5.1	19
100	Effects of Oxygen Position in the Alkoxy Substituents on the Photovoltaic Performance of A-DA <sup>2</sup> D-A Type Pentacyclic Small Molecule Acceptors. <i>ACS Energy Letters</i> , 2022, 7, 2373-2381.	17.4	19
101	New m-alkoxy-p-fluorophenyl difluoroquinoxaline based polymers in efficient fullerene solar cells with high fill factor. <i>Organic Electronics</i> , 2017, 50, 7-15.	2.6	18
102	Enabling Efficient Tandem Organic Photovoltaics with High Fill Factor via Reduced Charge Recombination. <i>ACS Energy Letters</i> , 2019, 4, 1535-1540.	17.4	18
103	Polymers from phenyl-substituted benzodithiophene and tetrafluoroquinoxaline with high open circuit voltage and high fill factor. <i>Organic Electronics</i> , 2016, 37, 287-293.	2.6	17
104	Fine-tuning the energy levels and morphology via fluorination and thermal annealing enable high efficiency non-fullerene organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3310-3318.	5.9	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. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14752-14757.	10.3	17
106	Vinylene $\pi$ -bridge: A simple building block for ultra-narrow bandgap nonfullerene acceptors enable 14.2% efficiency in binary organic solar cells. <i>Dyes and Pigments</i> , 2021, 188, 109171.	3.7	17
107	Over 13% Efficient Organic Solar Cells Based on Low-Cost Pentacyclic DA <sup>2</sup> DA-Type Nonfullerene Acceptor. <i>Solar Rrl</i> , 2021, 5, 2100281.	5.8	17
108	Achieving ultra-narrow bandgap non-halogenated non-fullerene acceptors via vinylene $\pi$ -bridges for efficient organic solar cells. <i>Materials Advances</i> , 2021, 2, 2132-2140.	5.4	16

#	ARTICLE	IF	CITATIONS
109	Intrachain and Interchain Excitonâ€“Exciton Annihilation in Donorâ€“Acceptor Copolymers. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3928-3933.	4.6	16
110	S-Shaped Double Helicene Diimides: Synthesis, Self-Assembly, and Mechanofluorochromism. <i>Organic Letters</i> , 2021, 23, 6183-6188.	4.6	16
111	Manipulating molecular aggregation and crystalline behavior of Aâ€“DAâ€“A type acceptors by side chain engineering in organic solar cells. <i>Aggregate</i> , 2022, 3, .	9.9	16
112	Alkyl substituted naphtho[1, 2-b: 5, 6-bâ€“2]difuran as a new building block towards efficient polymer solar cells. <i>RSC Advances</i> , 2013, 3, 5366.	3.6	15
113	Interface Modification Enabled by Atomic Layer Deposited Ultraâ€“Thin Titanium Oxide for Highâ€“Efficiency and Semitransparent Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000497.	5.8	15
114	Fluorination Enhances NIRâ€“Fluorescence of Polymer Dots for Quantitative Brain Tumor Imaging. <i>Angewandte Chemie</i> , 2020, 132, 21235-21243.	2.0	15
115	Theoretical exploration of optoelectronic performance of PM6:Y6 series-based organic solar cells. <i>Surfaces and Interfaces</i> , 2021, 26, 101385.	3.0	15
116	Asymmetric medium bandgap copolymers and narrow bandgap small-molecule acceptor with over 7% efficiency. <i>Organic Electronics</i> , 2017, 45, 42-48.	2.6	13
117	Side-chain fluorination on the pyrido[3,4-b]pyrazine unit towards efficient photovoltaic polymers. <i>Science China Chemistry</i> , 2018, 61, 206-214.	8.2	13
118	Reliability of charge carrier recombination data determined with charge extraction methods. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	13
119	Ternary solvent-processed efficient organic solar cells based on a new A-DAâ€“D-A acceptor derivative employing the 3rd-position branching side chains on pyrroles. <i>Chinese Chemical Letters</i> , 2021, 32, 229-233.	9.0	13
120	Highly sensitive photoelectrochemical sensing platform based on PM6:Y6 p-n heterojunction for detection of MCF-7 cells. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131814.	7.8	12
121	Novel photoelectrochemical immunosensor for MCF-7 cell detection based on n-p organic semiconductor heterojunction. <i>Chinese Chemical Letters</i> , 2022, 33, 2954-2958.	9.0	11
122	Synthesis and Photovoltaic Investigation of 8,10-Bis(2-octyldodecyl)-8,10-dihydro-9<i>H</i>-bisthieno[2â€“3â€“7,8;3â€“2â€“5,6]naphtho[2,3- <i>d&lt;/i&gt;]imidazol-9-one Based Conjugated Polymers Using a Nonfullerene Acceptor. <i>ACS Applied Energy Materials</i>, 2020, 3, 495-505.</i>	5.1	10
123	Interplay between Intrachain and Interchain Excited States in Donorâ€“Acceptor Copolymers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7470-7476.	2.6	10
124	Alkyl side chain engineering enables high performance as-cast organic solar cells of over 17% efficiency. <i>Fundamental Research</i> , 2023, 3, 611-617.	3.3	10
125	Random D1â€“A1â€“D1â€“A2 terpolymers based on diketopyrrolopyrrole and benzothiadiazolequinoxaline (BTOx) derivatives for high-performance polymer solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 5325-5334.	2.8	9
126	Indole-based Aâ€“DAâ€“Dâ€“A type acceptor-based organic solar cells achieve efficiency over 15 % with low energy loss. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6203-6211.	4.9	8



#	ARTICLE	IF	CITATIONS
127	From Generation to Extraction: A Time-Resolved Investigation of Photophysical Processes in Non-fullerene Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21283-21292.	3.1	8
128	A "A Nonfullerene Acceptor Obtained by Fine-Tuning Side Chains on Pyrroles Enables PBDB-T-Based Organic Solar Cells with over 14% Efficiency. <i>ACS Applied Energy Materials</i> , 2020, 3, 11981-11991.	5.1	8
129	Electron-Deficient Contorted Polycyclic Aromatic Hydrocarbon via One-Pot Annulative $\pi$ -Extension of Perylene Diimide. <i>Organic Letters</i> , 2022, 24, 2414-2419.	4.6	8
130	Naphthodifuran-based zigzag-type polycyclic arene with conjugated side chains for efficient photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14289-14295.	2.8	7
131	Fine-tuning blend morphology via alkylthio side chain engineering towards high performance non-fullerene polymer solar cells. <i>Chemical Physics Letters</i> , 2018, 696, 19-25.	2.6	7
132	A new chlorinated non-fullerene acceptor based organic photovoltaic cells over 12% efficiency. <i>Journal of Central South University</i> , 2020, 27, 3581-3593.	3.0	7
133	Phosphorus-doped h-boron nitride as an efficient metal-free catalyst for direct dehydrogenation of ethylbenzene. <i>Catalysis Science and Technology</i> , 2021, 11, 5590-5597.	4.1	7
134	Fine-tuning of non-fullerene acceptor gives over 14% efficiency for organic solar cells. <i>Dyes and Pigments</i> , 2020, 181, 108559.	3.7	7
135	Synthesize non-fullerene acceptors of five fused-ring by modifying side chain. <i>Solar Energy</i> , 2019, 191, 566-573.	6.1	6
136	A wide-bandgap copolymer donor based on a phenanthridin-6(5 <i>H</i> )-one unit. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2686-2689.	5.9	6
137	Ternary organic solar cells: Improved optical and morphological properties allow an enhanced efficiency. <i>Chinese Chemical Letters</i> , 2021, 32, 1359-1362.	9.0	6
138	Monolayer Nanosheets Exfoliated from Cage-Based Cationic Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2022, 61, 1521-1529.	4.0	6
139	New wide band gap $\pi$ -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%. <i>Polymer</i> , 2022, 251, 124892.	3.8	6
140	Modifying side chain of non-fullerene acceptors to obtain efficient organic solar cells with high fill factor. <i>Chemical Physics</i> , 2021, 546, 111172.	1.9	5
141	A new fluoropyrido[3,4-b]pyrazine based polymer for efficient photovoltaics. <i>Polymer Chemistry</i> , 2017, 8, 2227-2234.	3.9	4
142	Synthesis and photovoltaic properties of a non-fullerene acceptor with F-phenylalkoxy as a side chain. <i>New Journal of Chemistry</i> , 2018, 42, 19279-19284.	2.8	4
143	Molecular Tuning of Titanium Complexes with Controllable Work Function for Efficient Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20800-20807.	3.1	4
144	Synthesis and photovoltaic properties of alkylthiothiophene modified benzodithiophene polymer. <i>Chemical Physics Letters</i> , 2019, 730, 271-276.	2.6	4

#	ARTICLE	IF	CITATIONS
145	Binary and Ternary Polymer Solar Cells Based on a Wide Bandgap D-A Copolymer Donor and Two Nonfullerene Acceptors with Complementary Absorption Spectral. <i>ChemSusChem</i> , 2021, 14, 4731-4740.	6.8	3
146	Bromination and increasing the molecular conjugation length of the non-fullerene small-molecule acceptor based on benzotriazole for efficient organic photovoltaics. <i>RSC Advances</i> , 2021, 11, 13571-13578.	3.6	3
147	<i>In situ</i> growth of phosphorus-doped boron nitride on commercial alumina as a robust catalyst for direct dehydrogenation of ethylbenzene. <i>Catalysis Science and Technology</i> , 2022, 12, 962-968.	4.1	3
148	Regulating the properties of small molecular acceptors with different end groups. <i>Solar Energy</i> , 2021, 223, 100-105.	6.1	2
149	Synthesis and characterization of red-emission PPV copolymers containing fluorenone unit. <i>Central South University</i> , 2010, 17, 269-276.	0.5	1
150	Side chain engineering for the regulation of quinoxaline based D-A copolymers. <i>Dyes and Pigments</i> , 2019, 162, 487-493.	3.7	1
151	A new low-bandgap polymer acceptor based on benzotriazole for efficient all-polymer solar cells. <i>Journal of Central South University</i> , 2021, 28, 1919-1931.	3.0	1
152	New Donor-Acceptor Random Terpolymers with Wide Absorption Spectra of 300-1000 nm for Photovoltaic Applications. <i>Doklady Physical Chemistry</i> , 2020, 495, 196-200.	0.9	1
153	End group engineering enabling organic solar cells with high open-circuit voltage. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 374002.	2.8	1
154	Fine-tuning the Photovoltaic Performance of Organic Solar Cells by Collaborative Optimization of Structural Isomerism and Halogen Atom. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, 2100138.	5.8	0