Long Ye

List of Publications by Year
in descending order

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197 papers	20,105 citations	10956 71 h-index	10708 138 g-index
201 all docs	201 docs citations	201 times ranked	8590 citing authors

#	Article	IF	Citations
1	An In Situ Film-to-Film Transformation Approach toward Highly Crystalline Covalent Organic Framework Films. CCS Chemistry, 2022, 4, 1519-1525.	4.6	25
2	Resolving the Molecular Origin of Mechanical Relaxations in Donorâ€“Acceptor Polymer Semiconductors. Advanced Functional Materials, 2022, 32, 2105597.	7.8	15
3	Printable and stable all-polymer solar cells based on non-conjugated polymer acceptors with excellent mechanical robustness. Science China Chemistry, 2022, 65, 182-189.	4.2	31
4	Understanding, quantifying, and controlling the molecular ordering of semiconducting polymers: from novices to experts and amorphous to perfect crystals. Materials Horizons, 2022, 9, 577-606.	6.4	117
5	Ecoâ€friendly solution processing of allâ€polymer solar cells: Recent advances and future perspective. Journal of Polymer Science, 2022, 60, 945-960.	2.0	12
6	Delicate crystallinity control enables high-efficiency P3HT organic photovoltaic cells. Journal of Materials Chemistry A, 2022, 10, 3418-3429.	5.2	45
7	Achieving high efficiency and well-kept ductility in ternary all-polymer organic photovoltaic blends thanks to two well miscible donors. Matter, 2022, 5, 725-734.	5.0	145
8	Morphology control in <scp>highâ€efficiency allâ€polymer</scp> solar cells. InformaÄ•Ã-MateriÃ¡ly, 2022, 4, .	8.5	59
9	Understanding the molecular mechanisms of the differences in the efficiency and stability of all-polymer solar cells. Journal of Materials Chemistry C, 2022, 10, 1850-1861.	2.7	9
10	Unraveling the Molar Mass Dependence of Shearingâ€Induced Aggregation Structure of a Highâ€Mobility Polymer Semiconductor. Advanced Materials, 2022, 34, e2108255.	11.1	43
11	A general enlarging shear impulse approach to green printing large-area and efficient organic photovoltaics. Energy and Environmental Science, 2022, 15, 2130-2138.	15.6	38
12	Revealing the Molar Mass Dependence on Thermal, Microstructural, and Electrical Properties of Direct Arylation Polycondensation Prepared Poly(3-hexylthiophene). ACS Applied Polymer Materials, 2022, 4, 1826-1835.	2.0	7
13	Thermally stable poly(3â€hexylthiophene): Nonfullerene solar cells with efficiency breaking 10%. Aggregate, 2022, 3, .	5.2	38
14	Simultaneously Enhanced Efficiency and Mechanical Durability in Ternary Solar Cells Enabled by Lowâ€Cost Incompletely Separated Fullerenes. Macromolecular Rapid Communications, 2022, 43, e2200139.	2.0	14
15	Reproducibility in Time and Spaceâ€"The Molecular Weight Effects of Polymeric Materials in Organic Photovoltaic Devices. Small Methods, 2022, 6, e2101548.	4.6	8
16	A Mixed-Ligand Strategy to Modulate P3HT Regioregularity for High-Efficiency Solar Cells. Macromolecules, 2022, 55, 3078-3086.	2.2	26
17	Simple Polythiophene Solar Cells Approaching 10% Efficiency via Carbon Chain Length Modulation of Poly(3-alkylthiophene). Macromolecules, 2022, 55, 133-145.	2.2	33
18	An Aggregationâ€Suppressed Polymer Blending Strategy Enables Highâ€Performance Organic and Quantum Dot Hybrid Solar Cells. Small, 2022, 18, e2201387.	5.2	17

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19	Unraveling the Correlations between Mechanical Properties, Miscibility, and Film Microstructure in Allâ€Polymer Photovoltaic Cells. Advanced Functional Materials, 2022, 32, .	7.8	47
20	Novel Third Components with (Thio)barbituric Acid as the End Groups Improving the Efficiency of Ternary Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 23701-23708.	4.0	13
21	Unraveling the Photovoltaic, Mechanical, and Microstructural Properties and Their Correlations in Simple Poly(3â€pentylthiophene) Solar Cells. Macromolecular Rapid Communications, 2022, 43, e2200229.	2.0	4
22	The rise of polythiophene photovoltaics. Joule, 2022, 6, 941-944.	11.7	18
23	Low-cost and high-performance poly(thienylene vinylene) derivative donor for efficient versatile organic photovoltaic cells. Nano Energy, 2022, 100, 107463.	8.2	33
24	When Electronically Inert Polymers Meet Conjugated Polymers: Emerging Opportunities in Organic Photovoltaics. Chinese Journal of Polymer Science (English Edition), 2022, 40, 861-869.	2.0	5
25	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
26	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
27	Recent advances in the development of radiative sky cooling inspired from solar thermal harvesting. Nano Energy, 2021, 81, 105611.	8.2	36
28	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
29	Morphology evolution with polymer chain propagation and its impacts on device performance and stability of non-fullerene solar cells. Journal of Materials Chemistry A, 2021, 9, 556-565.	5.2	19
30	Effects of personality on job burnout and safety performance of high-speed rail drivers in China: the mediator of organizational identification. Journal of Transportation Safety and Security, 2021, 13, 695-713.	1.1	9
31	Modulation of Morphological, Mechanical, and Photovoltaic Properties of Ternary Organic Photovoltaic Blends for Optimum Operation. Advanced Energy Materials, 2021, 11, 2003506.	10.2	92
32	Ternary copolymers containing 3,4-dicyanothiophene for efficient organic solar cells with reduced energy loss. Journal of Materials Chemistry A, 2021, 9, 13522-13530.	5.2	23
33	Relationship between charge transfer state electroluminescence and the degradation of organic photovoltaics. Applied Physics Letters, 2021, 118, .	1.5	4
34	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2010535.	7.8	55
35	Fluorination Enables Tunable Molecular Interaction and Photovoltaic Performance in Non-Fullerene Solar Cells Based on Ester-Substituted Polythiophene. Frontiers in Chemistry, 2021, 9, 687996.	1.8	6
36	Near-infrared absorbing non-fullerene acceptors with unfused D-A-D core for efficient organic solar cells. Organic Electronics, 2021, 92, 106131.	1.4	5

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37	Low-bandgap conjugated polymers based on benzodipyrrolidone with reliable unipolar electron mobility exceeding 1 cm2 Vâˆ'1 sâˆ'1. Science China Chemistry, 2021, 64, 1219-1227.	4.2	19
38	High-Performance All-Polymer Solar Cells and Photodetectors Enabled by a High-Mobility n-Type Polymer and Optimized Bulk-Heterojunction Morphology. Chemistry of Materials, 2021, 33, 3746-3756.	3.2	17
39	Control of aggregated structure of photovoltaic polymers for highâ€efficiency solar cells. Aggregate, 2021, 2, e46.	5.2	60
40	Openâ€Circuit Voltage Loss in Lead Chalcogenide Quantum Dot Solar Cells. Advanced Materials, 2021, 33, e2008115.	11.1	44
41	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donorâ€"Acceptor Photovoltaic Blends. Angewandte Chemie - International Edition, 2021, 60, 15988-15994.	7.2	60
42	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donorâ€"Acceptor Photovoltaic Blends. Angewandte Chemie, 2021, 133, 16124-16130.	1.6	11
43	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
44	Miscibility Control by Tuning Electrostatic Interactions in Bulk Heterojunction for Efficient Organic Solar Cells. , 2021, 3, 1276-1283.		26
45	Implications of Crystallization Temperatures of Organic Small Molecules in Optimizing Nonfullerene Solar Cell Performance. ACS Applied Energy Materials, 2021, 4, 8442-8453.	2.5	7
46	High <i>T</i>_g Polymer Insulator Yields Organic Photovoltaic Blends with Superior Thermal Stability at 150 <scp>^oC</scp>. Chinese Journal of Chemistry, 2021, 39, 2570-2578.	2.6	20
47	Remove the water-induced traps toward improved performance in organic solar cells. Science China Materials, 2021, 64, 2629-2644.	3.5	11
48	åˆ†åé‡å¯¹å…±è½é«˜åˆ†åè–„è†œç»“æž„å'Œç"µå¦æ€§èƒ½çš„å½±å"• Scientia Sinica Chimica, 2021, , .	0.2	0
49	Challenges and recent advances in photodiodes-based organic photodetectors. Materials Today, 2021, 51, 475-503.	8.3	94
50	Non-fullerene acceptor organic photovoltaics with intrinsic operational lifetimes over 30 years. Nature Communications, 2021, 12, 5419.	5.8	128
51	Revealing the Sideâ€Chainâ€Dependent Ordering Transition of Highly Crystalline Doubleâ€Cable Conjugated Polymers. Angewandte Chemie - International Edition, 2021, 60, 25499-25507.	7.2	31
52	Revealing the Sideâ€Chainâ€Dependent Ordering Transition of Highly Crystalline Doubleâ€Cable Conjugated Polymers. Angewandte Chemie, 2021, 133, 25703-25711.	1.6	3
53	Optimization of Monomer Molecular Structure for Polymer Electrodes Fabricated through inâ€situ Electroâ€Polymerization Strategy. ChemSusChem, 2021, 14, 4573-4582.	3.6	5
54	Calculation aided miscibility manipulation enables highly efficient polythiophene:nonfullerene photovoltaic cells. Science China Chemistry, 2021, 64, 478-487.	4.2	43

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55	Sequential deposition enables high-performance nonfullerene organic solar cells. Materials Chemistry Frontiers, 2021, 5, 4851-4873.	3.2	28
56	Tuning the molar mass of P3HT via direct arylation polycondensation yields optimal interaction and high efficiency in nonfullerene organic solar cells. Journal of Materials Chemistry A, 2021, 9, 19874-19885.	5.2	31
57	Advances and prospective in thermally stable nonfullerene polymer solar cells. Science China Chemistry, 2021, 64, 1875-1887.	4.2	31
58	The renaissance of polythiophene organic solar cells. Trends in Chemistry, 2021, 3, 1074-1087.	4.4	64
59	Towards a bright future: The versatile applications of organic solar cells. Materials Reports Energy, 2021, 1, 100062.	1.7	20
60	Thermoplastic Elastomer Tunes Phase Structure and Promotes Stretchability of Highâ€Efficiency Organic Solar Cells. Advanced Materials, 2021, 33, e2106732.	11.1	101
61	Stabilizing the microstructure for Y6-series nonfullerene solar cells. CheM, 2021, 7, 2853-2854.	5.8	6
62	P3HT-Based Organic Solar Cells with a Photoresponse to 1000 nm Enabled by Narrow Band Gap Nonfullerene Acceptors with High HOMO Levels. ACS Applied Materials & Interfaces, 2021, 13, 61487-61495.	4.0	16
63	TCNQ as a volatilizable morphology modulator enables enhanced performance in non-fullerene organic solar cells. Journal of Materials Chemistry C, 2020, 8, 44-49.	2.7	16
64	PBDB-T and its derivatives: A family of polymer donors enables over 17% efficiency in organic photovoltaics. Materials Today, 2020, 35, 115-130.	8.3	269
65	Reduced Energy Loss in Non-Fullerene Organic Solar Cells with Isomeric Donor Polymers Containing Thiazole Ï€-Spacers. ACS Applied Materials & Interfaces, 2020, 12, 753-762.	4.0	34
66	Enhanced efficiency in nonfullerene organic solar cells by tuning molecular order and domain characteristics. Nano Energy, 2020, 77, 105310.	8.2	25
67	Molecular Engineering and Morphology Control of Polythiophene:Nonfullerene Acceptor Blends for Highâ€Performance Solar Cells. Advanced Energy Materials, 2020, 10, 2002572.	10.2	83
68	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.	15.6	158
69	Direct Arylation Polycondensation of Chlorinated Thiophene Derivatives to High-Mobility Conjugated Polymers. Macromolecules, 2020, 53, 10147-10154.	2.2	27
70	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and Highâ€Efficiency Semitransparent Organic Photovoltaics. Solar Rrl, 2020, 4, 2000328.	3.1	36
71	Efficient Asâ€Cast Polymer Solar Cells with High and Stabilized Fill Factor. Solar Rrl, 2020, 4, 2000275.	3.1	7
72	Efficient Organic Ternary Solar Cells Employing Narrow Band Gap Diketopyrrolopyrrole Polymers and Nonfullerene Acceptors. Chemistry of Materials, 2020, 32, 7309-7317.	3.2	22

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73	A Narrowâ€Bandgap nâ€Type Polymer with an Acceptorâ€“Acceptor Backbone Enabling Efficient Allâ€Polymer Solar Cells. Advanced Materials, 2020, 32, e2004183.	11.1	184
74	Significance of thermodynamic interaction parameters in guiding the optimization of polymer:nonfullerene solar cells. Chemical Communications, 2020, 56, 12463-12478.	2.2	52
75	Miscibilityâ€Controlled Phase Separation in Doubleâ€Cable Conjugated Polymers for Singleâ€Component Organic Solar Cells with Efficiencies over 8â€‰%. Angewandte Chemie - International Edition, 2020, 59, 21683-21692.	7.2	82
76	Miscibilityâ€Controlled Phase Separation in Doubleâ€Cable Conjugated Polymers for Singleâ€Component Organic Solar Cells with Efficiencies over 8â€‰%. Angewandte Chemie, 2020, 132, 21867-21876.	1.6	18
77	Impact of Molecular Weight on the Mechanical and Electrical Properties of a High-Mobility Diketopyrrolopyrrole-Based Conjugated Polymer. Macromolecules, 2020, 53, 4490-4500.	2.2	85
78	Optimization Requirements of Efficient Polythiophene:Nonfullerene Organic Solar Cells. Joule, 2020, 4, 1278-1295.	11.7	133
79	Tuning the Hybridization of Local Exciton and Chargeâ€Transfer States in Highly Efficient Organic Photovoltaic Cells. Angewandte Chemie - International Edition, 2020, 59, 9004-9010.	7.2	144
80	Tuning the Hybridization of Local Exciton and Chargeâ€Transfer States in Highly Efficient Organic Photovoltaic Cells. Angewandte Chemie, 2020, 132, 9089-9095.	1.6	24
81	Role of Secondary Thermal Relaxations in Conjugated Polymer Film Toughness. Chemistry of Materials, 2020, 32, 6540-6549.	3.2	27
82	3,4â€Dicyanothiopheneâ€”a Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. Advanced Energy Materials, 2020, 10, 1904247.	10.2	48
83	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
84	A 3D nonfullerene electron acceptor with a 9,9â€²-bicarbazole backbone for high-efficiency organic solar cells. Organic Electronics, 2020, 84, 105784.	1.4	5
85	2D covalent organic framework thin filmsviainterfacial self-polycondensation of an A₂B₂type monomer. Chemical Communications, 2020, 56, 3253-3256.	2.2	43
86	Abysmal failures of Y6 in polythiophene:nonfullerene solar cells: high efficiency requires a matched acceptor with much lower miscibility. , 2020, , .		0
87	Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1901823.	10.2	72
88	A multi-objective optimization-based layer-by-layer blade-coating approach for organic solar cells: rational control of vertical stratification for high performance. Energy and Environmental Science, 2019, 12, 3118-3132.	15.6	142
89	The Importance of Entanglements in Optimizing the Mechanical and Electrical Performance of All-Polymer Solar Cells. Chemistry of Materials, 2019, 31, 5124-5132.	3.2	88
90	Alkyl Chain Tuning of Small Molecule Acceptors for Efficient Organic Solar Cells. Joule, 2019, 3, 3020-3033.	11.7	763

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91	Modulation of Building Block Size in Conjugated Polymers with Dâ€“A Structure for Polymer Solar Cells. Macromolecules, 2019, 52, 7929-7938.	2.2	10
92	Conjugationâ€Curtailing of Benzodithionopyranâ€Cored Molecular Acceptor Enables Efficient Airâ€Processed Small Molecule Solar Cells. Small, 2019, 15, e1902656.	5.2	11
93	Multi-length scale morphology of nonfullerene all-small molecule blends and its relation to device function in organic solar cells. Materials Chemistry Frontiers, 2019, 3, 137-144.	3.2	12
94	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.	1.4	17
95	Black phosphorus nanoflakes as morphology modifier for efficient fullerene-free organic solar cells with high fill-factor and better morphological stability. Nano Research, 2019, 12, 777-783.	5.8	31
96	The crucial role of end group planarity for fused-ring electron acceptors in organic solar cells. Materials Chemistry Frontiers, 2019, 3, 1642-1652.	3.2	12
97	Supervisory and coworker support for safety: Buffers between job insecurity and safety performance of high-speed railway drivers in China. Safety Science, 2019, 117, 290-298.	2.6	56
98	Sequential Deposition of Organic Films with Ecoâ€Compatible Solvents Improves Performance and Enables Over 12%â€Efficiency Nonfullerene Solar Cells. Advanced Materials, 2019, 31, e1808153.	11.1	132
99	Highly Efficient, Stable, and Ductile Ternary Nonfullerene Organic Solar Cells from a Twoâ€Donor Polymer Blend. Advanced Materials, 2019, 31, e1808279.	11.1	79
100	Rational Strategy to Stabilize an Unstable Highâ€Efficiency Binary Nonfullerene Organic Solar Cells with a Third Component. Advanced Energy Materials, 2019, 9, 1900376.	10.2	132
101	Efficient Thick-Film Polymer Solar Cells with Enhanced Fill Factors via Increased Fullerene Loading. ACS Applied Materials & Interfaces, 2019, 11, 10794-10800.	4.0	21
102	Polymer Side-Chain Variation Induces Microstructural Disparity in Nonfullerene Solar Cells. Chemistry of Materials, 2019, 31, 6568-6577.	3.2	45
103	â€œTwistedâ€•conjugated molecules as donor materials for efficient all-small-molecule organic solar cells processed with tetrahydrofuran. Journal of Materials Chemistry A, 2019, 7, 23008-23018.	5.2	37
104	Revealing the Impact of F4â€TCNQ as Additive on Morphology and Performance of Highâ€Efficiency Nonfullerene Organic Solar Cells. Advanced Functional Materials, 2019, 29, 1806262.	7.8	55
105	A Printable Organic Cathode Interlayer Enables over 13% Efficiency for 1-cm2 Organic Solar Cells. Joule, 2019, 3, 227-239.	11.7	193
106	Quenching to the Percolation Threshold in Organic Solar Cells. Joule, 2019, 3, 443-458.	11.7	183
107	Isomeryâ€Dependent Miscibility Enables Highâ€Performance Allâ€Smallâ€Molecule Solar Cells. Small, 2019, 15, 1804271.	5.2	50
108	Semi-transparent organic solar cells for greenhouse application (Conference Presentation). , 2019, , .		1

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109	Soft X-Ray Scattering Characterization of Polymer Semiconductors. , 2019, , 427-458.		9
110	Sequential deposition of organic films with eco-compatible solvents enables high-efficiency nonfullerene solar cells (Conference Presentation). , 2019, , .		0
111	Rational strategies to stabilize the morphology of non-fullerene organic solar cells (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10		0
112	The crucial role of end group planarity for fused-ring electron acceptors in organic solar cells (Conference Presentation). , 2019, , .		0
113	Solar Cells: Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent (Adv. Mater. 8/2018). Advanced Materials, 2018, 30, 1870054.	11.1	3
114	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. Nature Materials, 2018, 17, 253-260.	13.3	556
115	Miscibilityâ€"Function Relations in Organic Solar Cells: Significance of Optimal Miscibility in Relation to Percolation. Advanced Energy Materials, 2018, 8, 1703058.	10.2	223
116	A polymer design strategy toward green solvent processed efficient non-fullerene polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 4324-4330.	5.2	48
117	Controlling Blend Morphology for Ultrahigh Current Density in Nonfullerene Acceptor-Based Organic Solar Cells. ACS Energy Letters, 2018, 3, 669-676.	8.8	242
118	Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent. Advanced Materials, 2018, 30, 1705485.	11.1	150
119	A Highâ€Efficiency Organic Solar Cell Enabled by the Strong Intramolecular Electron Pushâ€"Pull Effect of the Nonfullerene Acceptor. Advanced Materials, 2018, 30, e1707170.	11.1	351
120	Influence of Donor Polymer on the Molecular Ordering of Small Molecular Acceptors in Nonfullerene Polymer Solar Cells. Advanced Energy Materials, 2018, 8, 1701674.	10.2	60
121	Highâ€Performance Wide Bandgap Copolymers Using an EDOT Modified Benzodithiophene Donor Block with 10.11% Efficiency. Advanced Energy Materials, 2018, 8, 1602773.	10.2	35
122	Effect of Alkylsilyl Sideâ€Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. Advanced Energy Materials, 2018, 8, 1702324.	10.2	102
123	Measuring Temperature-Dependent Miscibility for Polymer Solar Cell Blends: An Easily Accessible Optical Method Reveals Complex Behavior. Chemistry of Materials, 2018, 30, 3943-3951.	3.2	38
124	Highâ€Efficiency Allâ€Smallâ€Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilylâ€Thienyl Conjugated Side Chains. Advanced Materials, 2018, 30, e1706361.	11.1	154
125	Long-Lived, Non-Geminate, Radiative Recombination of Photogenerated Charges in a Polymer/Small-Molecule Acceptor Photovoltaic Blend. Journal of the American Chemical Society, 2018, 140, 9996-10008.	6.6	73
126	A Wide Band Gap Polymer with a Deep Highest Occupied Molecular Orbital Level Enables 14.2% Efficiency in Polymer Solar Cells. Journal of the American Chemical Society, 2018, 140, 7159-7167.	6.6	654

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127	Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PyCNTAZ. Journal of Materials Chemistry A, 2017, 5, 4886-4893.	5.2	44
128	Significant Influence of the Methoxyl Substitution Position on Optoelectronic Properties and Molecular Packing of Smallâ€Molecule Electron Acceptors for Photovoltaic Cells. Advanced Energy Materials, 2017, 7, 1700183.	10.2	184
129	Quantitative Morphologyâ€“Performance Correlations in Organic Solar Cells: Insights from Soft Xâ€Ray Scattering. Advanced Energy Materials, 2017, 7, 1700084.	10.2	123
130	A regioregular conjugated polymer for high performance thick-film organic solar cells without processing additive. Journal of Materials Chemistry A, 2017, 5, 10517-10525.	5.2	46
131	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. Advanced Materials, 2017, 29, 1604603.	11.1	87
132	Morphology control enables thickness-insensitive efficient nonfullerene polymer solar cells. Materials Chemistry Frontiers, 2017, 1, 2057-2064.	3.2	42
133	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Openâ€Circuit Voltage. Advanced Materials, 2017, 29, 1700254.	11.1	363
134	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. Journal of the American Chemical Society, 2017, 139, 5085-5094.	6.6	303
135	Highâ€Efficiency Nonfullerene Organic Solar Cells: Critical Factors that Affect Complex Multiâ€Length Scale Morphology and Device Performance. Advanced Energy Materials, 2017, 7, 1602000.	10.2	232
136	Design of a New Smallâ€Molecule Electron Acceptor Enables Efficient Polymer Solar Cells with High Fill Factor. Advanced Materials, 2017, 29, 1704051.	11.1	224
137	Precise Manipulation of Multilength Scale Morphology and Its Influence on Ecoâ€Friendly Printed Allâ€Polymer Solar Cells. Advanced Functional Materials, 2017, 27, 1702016.	7.8	99
138	Precise Characterization of Performance Metrics of Organic Solar Cells. Small Methods, 2017, 1, 1700159.	4.6	11
139	Environmentally-friendly solvent processed fullerene-free organic solar cells enabled by screening halogen-free solvent additives. Science China Materials, 2017, 60, 697-706.	3.5	33
140	Role of Polymer Segregation on the Mechanical Behavior of All-Polymer Solar Cell Active Layers. ACS Applied Materials & Interfaces, 2017, 9, 43886-43892.	4.0	40
141	Control of Mesoscale Morphology and Photovoltaic Performance in Diketopyrrolopyrroleâ€Based Small Band Gap Terpolymers. Advanced Energy Materials, 2017, 7, 1601138.	10.2	59
142	Identification of the histone lysine demethylase KDM4A/JMJD2A as a novel epigenetic target in M1 macrophage polarization induced by oxidized LDL. Oncotarget, 2017, 8, 114442-114456.	0.8	20
143	Over 11%-efficiency fullerene-free organic solar cells enabled by benign solvents (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 0		
144	Greenâ€Solventâ€Processed Allâ€Polymer Solar Cells Containing a Perylene Diimideâ€Based Acceptor with an Efficiency over 6.5%. Advanced Energy Materials, 2016, 6, 1501991.	10.2	157

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145	Effectively Improving Extinction Coefficient of Benzodithiophene and Benzodithiophenedioneâ€based Photovoltaic Polymer by Grafting Alkylthio Functional Groups. Chemistry - an Asian Journal, 2016, 11, 2650-2655.	1.7	11
146	Breaking the 10% Efficiency Barrier in Organic Photovoltaics: Morphology and Device Optimization of Wellâ€known PBDTTT Polymers. Advanced Energy Materials, 2016, 6, 1502529.	10.2	285
147	Green-solvent-processable organic solar cells. Materials Today, 2016, 19, 533-543.	8.3	252
148	Energyâ€Level Modulation of Smallâ€Molecule Electron Acceptors to Achieve over 12% Efficiency in Polymer Solar Cells. Advanced Materials, 2016, 28, 9423-9429.	11.1	1,307
149	High Performance Organic Solar Cells Processed by Blade Coating in Air from a Benign Food Additive Solution. Chemistry of Materials, 2016, 28, 7451-7458.	3.2	91
150	Manipulation of Domain Purity and Orientational Ordering in High Performance All-Polymer Solar Cells. Chemistry of Materials, 2016, 28, 6178-6185.	3.2	87
151	Highâ€Efficiency Polymer Solar Cells Enabled by Environmentâ€Friendly Singleâ€Solvent Processing. Advanced Energy Materials, 2016, 6, 1502177.	10.2	91
152	Molecular Design of Benzodithiophene-Based Organic Photovoltaic Materials. Chemical Reviews, 2016, 116, 7397-7457.	23.0	998
153	Improving the open-circuit voltage of alkylthio-substituted photovoltaic polymers via post-oxidation. Organic Electronics, 2016, 28, 39-46.	1.4	14
154	Dialkylthio Substitution: An Effective Method to Modulate the Molecular Energy Levels of 2D-BDT Photovoltaic Polymers. ACS Applied Materials & Interfaces, 2016, 8, 3575-3583.	4.0	43
155	Manipulating Aggregation and Molecular Orientation in Allâ€Polymer Photovoltaic Cells. Advanced Materials, 2015, 27, 6046-6054.	11.1	264
156	Molecular Design and Application of a Photovoltaic Polymer with Improved Optical Properties and Molecular Energy Levels. Macromolecules, 2015, 48, 3493-3499.	2.2	52
157	Molecular design strategies for voltage modulation in highly efficient polymer solar cells. Polymer International, 2015, 64, 957-962.	1.6	45
158	Conjugated Polymer Photovoltaic Materials. Lecture Notes in Quantum Chemistry II, 2015, , 195-239.	0.3	3
159	An Easily Accessible Cathode Buffer Layer for Achieving Multiple High Performance Polymer Photovoltaic Cells. Journal of Physical Chemistry C, 2015, 119, 27322-27329.	1.5	30
160	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. Science China Materials, 2015, 58, 953-960.	3.5	41
161	Toward efficient non-fullerene polymer solar cells: Selection of donor polymers. Organic Electronics, 2015, 17, 295-303.	1.4	41
162	Realizing over 10% efficiency in polymer solar cell by device optimization. Science China Chemistry, 2015, 58, 248-256.	4.2	311

#	Article	IF	Citations
163	Optimization of side chains in alkylthiothiophene-substituted benzo[1,2-b:4,5-bâ€²]dithiophene-based photovoltaic polymers. Polymer Chemistry, 2015, 6, 2752-2760.	1.9	37
164	Highly Efficient Photovoltaic Polymers Based on Benzodithiophene and Quinoxaline with Deeper HOMO Levels. Macromolecules, 2015, 48, 5172-5178.	2.2	104
165	Enhanced Efficiency in Fullerene-Free Polymer Solar Cell by Incorporating Fine-designed Donor and Acceptor Materials. ACS Applied Materials & Interfaces, 2015, 7, 9274-9280.	4.0	110
166	A universal halogen-free solvent system for highly efficient polymer solar cells. Journal of Materials Chemistry A, 2015, 3, 12723-12729.	5.2	97
167	Influence of the alkyl substitution position on photovoltaic properties of 2D-BDT-based conjugated polymers. Science China Materials, 2015, 58, 213-222.	3.5	21
168	2D-Conjugated Benzodithiophene-Based Polymer Acceptor: Design, Synthesis, Nanomorphology, and Photovoltaic Performance. Macromolecules, 2015, 48, 7156-7163.	2.2	70
169	Enhanced efficiency of polymer photovoltaic cells via the incorporation of a water-soluble naphthalene diimide derivative as a cathode interlayer. Journal of Materials Chemistry C, 2015, 3, 9565-9571.	2.7	60
170	Highly Efficient Tandem Polymer Solar Cells with a Photovoltaic Response in the Visible Light Range. Advanced Materials, 2015, 27, 1189-1194.	11.1	130
171	Toward reliable and accurate evaluation of polymer solar cells based on low band gap polymers. Journal of Materials Chemistry C, 2015, 3, 564-569.	2.7	32
172	CHAPTER 2. New Polymer Donors for Polymer Solar Cells. RSC Polymer Chemistry Series, 2015, , 32-77.	0.1	2
173	Selecting a Donor Polymer for Realizing Favorable Morphology in Efficient Nonâ€fullerene Acceptorâ€based Solar Cells. Small, 2014, 10, 4658-4663.	5.2	76
174	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
175	Quantification of Nanoâ€•and Mesoscale Phase Separation and Relation to Donor and Acceptor Quantum Efficiency, J_{sc}, and FF in Polymer:Fullerene Solar Cells. Advanced Materials, 2014, 26, 4234-4241.	11.1	127
176	Bay-linked perylene bisimides as promising non-fullerene acceptors for organic solar cells. Chemical Communications, 2014, 50, 1024-1026.	2.2	290
177	Binary additives synergistically boost the efficiency of all-polymer solar cells up to 3.45%. Energy and Environmental Science, 2014, 7, 1351-1356.	15.6	224
178	Photovoltaics: Quantification of Nanoâ€•and Mesoscale Phase Separation and Relation to Donor and Acceptor Quantum Efficiency, J_{sc}, and FF in Polymer:Fullerene Solar Cells (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	11.1	1
179	Side Chain Selection for Designing Highly Efficient Photovoltaic Polymers with 2D-Conjugated Structure. Macromolecules, 2014, 47, 4653-4659.	2.2	259
180	Investigations of the Conjugated Polymers Based on Dithienogermole (DTG) Units for Photovoltaic Applications. Macromolecules, 2014, 47, 5558-5565.	2.2	34

#	Article	IF	Citations
181	Highly Efficient 2D-Conjugated Benzodithiophene-Based Photovoltaic Polymer with Linear Alkylthio Side Chain. Chemistry of Materials, 2014, 26, 3603-3605.	3.2	531
182	Molecular Design toward Highly Efficient Photovoltaic Polymers Based on Two-Dimensional Conjugated Benzodithiophene. Accounts of Chemical Research, 2014, 47, 1595-1603.	7.6	667
183	Ultrathin Polyaniline-based Buffer Layer for Highly Efficient Polymer Solar Cells with Wide Applicability. Scientific Reports, 2014, 4, 6570.	1.6	69
184	Competition between morphological attributes in the thermal annealing and additive processing of polymer solar cells. Journal of Materials Chemistry C, 2013, 1, 5023.	2.7	44
185	A Potential Perylene Diimide Dimerâ€Based Acceptor Material for Highly Efficient Solutionâ€Processed Nonâ€Fullerene Organic Solar Cells with 4.03% Efficiency. Advanced Materials, 2013, 25, 5791-5797.	11.1	444
186	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
187	Enhanced Photovoltaic Performance of Diketopyrrolopyrrole (DPP)-Based Polymers with Extended Ï€ Conjugation. Journal of Physical Chemistry C, 2013, 117, 9550-9557.	1.5	103
188	Application of Bis-PCBM in Polymer Solar Cells with Improved Voltage. Journal of Physical Chemistry C, 2013, 117, 25360-25366.	1.5	61
189	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
190	Molecular Design toward Efficient Polymer Solar Cells with High Polymer Content. Journal of the American Chemical Society, 2013, 135, 8464-8467.	6.6	86
191	Subnanosecond charge photogeneration and recombination in polyfluorene copolymer-fullerene solar cell: Effects of electric field. Optics Express, 2013, 21, A241.	1.7	2
192	Conjugated and Nonconjugated Substitution Effect on Photovoltaic Properties of Benzodifuran-Based Photovoltaic Polymers. Macromolecules, 2012, 45, 6923-6929.	2.2	129
193	From Binary to Ternary Solvent: Morphology Fineâ€tuning of D/A Blends in PDPP3Tâ€based Polymer Solar Cells. Advanced Materials, 2012, 24, 6335-6341.	11.1	288
194	Application of Two-Dimensional Conjugated Benzo[1,2-b:4,5-bâ€²]dithiophene in Quinoxaline-Based Photovoltaic Polymers. Macromolecules, 2012, 45, 3032-3038.	2.2	154
195	Design, Application, and Morphology Study of a New Photovoltaic Polymer with Strong Aggregation in Solution State. Macromolecules, 2012, 45, 9611-9617.	2.2	664
196	Molecular energy level modulation by changing the position of electron-donating side groups. Journal of Materials Chemistry, 2012, 22, 5700.	6.7	63
197	New Electron Acceptor with End-Extended Conjugation for High-Performance Polymer Solar Cells. Energy & Fuels, 0, , .	2.5	5