Feng Liu

List of Publications by Year
in descending order

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314 papers	30,970 citations	2795 94 h-index	5101 166 g-index
314 all docs	314 docs citations	314 times ranked	15503 citing authors

#	Article	IF	Citations
1	Decoupling Complex Multiâ€Lengthâ€Scale Morphology in Nonâ€Fullerene Photovoltaics with Nitrogen Kâ€Edge Resonant Soft Xâ€ray Scattering. Advanced Materials, 2022, 34, e2107316.	11.1	16
2	Simple thiazole-centered oligothiophene donor enables 15.4% efficiency all small molecule organic solar cells. Journal of Materials Chemistry A, 2022, 10, 3009-3017.	5.2	28
3	Design of Nearâ€Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for Highâ€Performance Semitransparent Ternary Organic Solar Cells. Angewandte Chemie, 2022, 134, .	1.6	15
4	Design of Nearâ€Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for Highâ€Performance Semitransparent Ternary Organic Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	85
5	Nonfused Ring Electron Acceptors for Efficient Organic Solar Cells Enabled by Multiple Intramolecular Conformational Locks. ACS Applied Energy Materials, 2022, 5, 5136-5145.	2.5	16
6	Complex multilength-scale morphology in organic photovoltaics. Trends in Chemistry, 2022, 4, 699-713.	4.4	13
7	A novel Aâ€“DAâ€²Dâ€“A bifunctional small molecule for organic solar cell applications with impressive photovoltaic performance. Journal of Materials Chemistry A, 2022, 10, 16497-16505.	5.2	2
8	Ternary organic solar cells with 16.88% efficiency enabled by a twisted perylene diimide derivative to enhance the open-circuit voltage. Journal of Materials Chemistry C, 2021, 9, 3826-3834.	2.7	24
9	Morphology Evolution Induced by Sequential Annealing Enabling Enhanced Efficiency in All-Small Molecule Solar Cells. ACS Applied Energy Materials, 2021, 4, 4234-4241.	2.5	10
10	Synthesis and Application of Asymmetry Diphenylketone Photoinitiators. ChemistrySelect, 2021, 6, 4292-4297.	0.7	3
11	Organic Solar Cells with 18% Efficiency Enabled by an Alloy Acceptor: A Twoâ€inâ€One Strategy. Advanced Materials, 2021, 33, e2100830.	11.1	323
12	Probing morphology and chemistry in complex soft materials with in situ resonant soft x-ray scattering. Journal of Physics Condensed Matter, 2021, 33, 313001.	0.7	5
13	Melamine-Doped Cathode Interlayer Enables High-Efficiency Organic Solar Cells. ACS Energy Letters, 2021, 6, 3582-3589.	8.8	45
14	Organic Polymer Nanoparticles with Primary Ammonium Salt as Potent Antibacterial Nanomaterials. ACS Applied Materials & Interfaces, 2020, 12, 21254-21262.	4.0	36
15	Subtle Molecular Tailoring Induces Significant Morphology Optimization Enabling over 16% Efficiency Organic Solar Cells with Efficient Charge Generation. Advanced Materials, 2020, 32, e1906324.	11.1	312
16	Efficient all-polymer solar cells based on a narrow-bandgap polymer acceptor. Journal of Materials Chemistry C, 2020, 8, 16180-16187.	2.7	19
17	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. Energy and Environmental Science, 2020, 13, 5017-5027.	15.6	170
18	Approaching 16% Efficiency in All-Small-Molecule Organic Solar Cells Based on Ternary Strategy with a Highly Crystalline Acceptor. Joule, 2020, 4, 2223-2236.	11.7	142

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19	Random terpolymer based on thiophene-thiazolothiazole unit enabling efficient non-fullerene organic solar cells. Nature Communications, 2020, 11, 4612.	5.8	225
20	A perylene diimide-containing acceptor enables high fill factor in organic solar cells. Chemical Communications, 2020, 56, 11433-11436.	2.2	30
21	Highly efficient Co centers functionalized by nitrogen-doped carbon for the chemical fixation of CO2. RSC Advances, 2020, 10, 42408-42412.	1.7	5
22	Preparation of non-fullerene acceptors with a multi-asymmetric configuration in a one-pot reaction for organic solar cells. Journal of Materials Chemistry C, 2020, 8, 17229-17236.	2.7	23
23	Tailoring the molecular geometry of polyfluoride perylene diimide acceptors towards efficient organic solar cells. Journal of Materials Chemistry C, 2020, 8, 8224-8233.	2.7	24
24	Synthesis and application of new S-benzoheterocycle thiobenzoates photoinitiators. Research on Chemical Intermediates, 2020, 46, 3717-3726.	1.3	2
25	Bimolecular crystal instability and morphology of bulk heterojunction blends in organic and perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 11695-11703.	2.7	1
26	Fibril Network Strategy Enables Highâ€Performance Semitransparent Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2002181.	7.8	113
27	Optimized active layer morphology toward efficient and polymer batch insensitive organic solar cells. Nature Communications, 2020, 11, 2855.	5.8	237
28	Tuning the molecular geometry and packing mode of non-fullerene acceptors by altering the bridge atoms towards efficient organic solar cells. Materials Chemistry Frontiers, 2020, 4, 2462-2471.	3.2	18
29	Enhanced efficiency and stability of nonfullerene ternary polymer solar cells based on a spontaneously assembled active layer: the role of a high mobility small molecular electron acceptor. Journal of Materials Chemistry C, 2020, 8, 6196-6202.	2.7	22
30	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
31	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
32	Efficient modulation of end groups for the asymmetric small molecule acceptors enabling organic solar cells with over 15% efficiency. Journal of Materials Chemistry A, 2020, 8, 5927-5935.	5.2	39
33	Polymer interface engineering enabling high-performance perovskite solar cells with improved fill factors of over 82%. Journal of Materials Chemistry C, 2020, 8, 5467-5475.	2.7	25
34	Modification on the Indacenodithieno[3,2-b]thiophene Core to Achieve Higher Current and Reduced Energy Loss for Nonfullerene Solar Cells. Chemistry of Materials, 2020, 32, 1297-1307.	3.2	46
35	InÂsitu supramolecular polymerization-enhanced self-assembly of polymer vesicles for highly efficient photothermal therapy. Nature Communications, 2020, 11, 1724.	5.8	122
36	PCE11-based polymer solar cells with high efficiency over 13% achieved by room-temperature processing. Journal of Materials Chemistry A, 2020, 8, 8661-8668.	5.2	13

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37	Isomerizing thieno[3,4-b]thiophene-based near-infrared non-fullerene acceptors towards efficient organic solar cells. Journal of Materials Chemistry C, 2020, 8, 4357-4364.	2.7	15
38	Highâ€Performance Polymer Solar Cells Achieved by Introducing Sideâ€Chain Heteroatom on Smallâ€Molecule Electron Acceptor. Macromolecular Rapid Communications, 2019, 40, e1800393.	2.0	30
39	Modulating Structure Ordering via Side-Chain Engineering of Thieno[3,4-b]thiophene-Based Electron Acceptors for Efficient Organic Solar Cells with Reduced Energy Losses. ACS Applied Materials & Interfaces, 2019, 11, 35193-35200.	4.0	7
40	Enhancing phase separation with a conformation-locked nonfullerene acceptor for over 14.4% efficiency solar cells. Journal of Materials Chemistry C, 2019, 7, 13279-13286.	2.7	20
41	Quaternary Solar Cells with 12.5% Efficiency Enabled with Nonâ€Fullerene and Fullerene Acceptor Guests to Improve Open Circuit Voltage and Film Morphology. Macromolecular Rapid Communications, 2019, 40, 1900353.	2.0	8
42	Revealing the Critical Role of the HOMO Alignment on Maximizing Current Extraction and Suppressing Energy Loss in Organic Solar Cells. IScience, 2019, 19, 883-893.	1.9	68
43	A generic green solvent concept boosting the power conversion efficiency of all-polymer solar cells to 11%. Energy and Environmental Science, 2019, 12, 157-163.	15.6	287
44	Panchromatic Ternary Organic Solar Cells with Porphyrin Dimers and Absorption-Complementary Benzodithiophene-based Small Molecules. ACS Applied Materials & Interfaces, 2019, 11, 6283-6291.	4.0	49
45	Green solvent-processed efficient non-fullerene organic solar cells enabled by low-bandgap copolymer donors with EDOT side chains. Journal of Materials Chemistry A, 2019, 7, 716-726.	5.2	45
46	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. Nature Communications, 2019, 10, 519.	5.8	231
47	Perovskite Solar Cells Processed by Solution Nanotechnology. , 2019, , 119-174.		0
48	Over 12% Efficiency Nonfullerene Allâ€Smallâ€Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. Advanced Materials, 2019, 31, e1807842.	11.1	272
49	A 1 â€A 2 Type Wide Bandgap Polymers for Highâ€Performance Polymer Solar Cells: Energy Loss and Morphology. Solar Rrl, 2019, 3, 1800291.	3.1	15
50	Efficient Ternary Organic Solar Cells Enabled by the Integration of Nonfullerene and Fullerene Acceptors with a Broad Composition Tolerance. Advanced Functional Materials, 2019, 29, 1807006.	7.8	81
51	Steric Engineering of Alkylthiolation Side Chains to Finely Tune Miscibility in Nonfullerene Polymer Solar Cells. Advanced Energy Materials, 2019, 9, 1802686.	10.2	51
52	Molecular Engineering of Copper Phthalocyanines: A Strategy in Developing Dopantâ€Free Holeâ€Transporting Materials for Efficient and Ambientâ€Stable Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803287.	10.2	138
53	Nonhalogen Solventâ€Processed Asymmetric Wideâ€Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. Advanced Functional Materials, 2018, 28, 1706517.	7.8	65
54	Orthogonally Aligned Block Copolymer Line Patterns on Minimal Topographic Patterns. ACS Applied Materials & Interfaces, 2018, 10, 8324-8332.	4.0	15

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55	Regulation of excitation transitions by molecular design endowing full-color-tunable emissions with unexpected high quantum yields for bioimaging application. Science China Chemistry, 2018, 61, 418-426.	4.2	2
56	Energy-effectively printed all-polymer solar cells exceeding 8.61% efficiency. Nano Energy, 2018, 46, 428-435.	8.2	45
57	Side-chain modification of polyethylene glycol on conjugated polymers for ternary blend all-polymer solar cells with efficiency up to 9.27%. Science China Chemistry, 2018, 61, 427-436.	4.2	43
58	Dithienopicenocarbazole-Based Acceptors for Efficient Organic Solar Cells with Optoelectronic Response Over 1000 nm and an Extremely Low Energy Loss. Journal of the American Chemical Society, 2018, 140, 2054-2057.	6.6	369
59	Morphology Characterization of Bulk Heterojunction Solar Cells. Small Methods, 2018, 2, 1700229.	4.6	98
60	Conformation Locking on Fusedâ€Ring Electron Acceptor for Highâ€Performance Nonfullerene Organic Solar Cells. Advanced Functional Materials, 2018, 28, 1705095.	7.8	120
61	Terthieno[3,2â€b]Thiophene (6T) Based Low Bandgap Fusedâ€Ring Electron Acceptor for Highly Efficient Solar Cells with a High Shortâ€Circuit Current Density and Low Openâ€Circuit Voltage Loss. Advanced Energy Materials, 2018, 8, 1702831.	10.2	93
62	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. Advanced Energy Materials, 2018, 8, 1701942.	10.2	99
63	Developing Highâ€Performance Electronâ€Rich Unit Endâ€Capped Wide Bandgap Oligomeric Donor by Weak Electronâ€Deficient Central Core Strategy. Solar Rrl, 2018, 2, 1700212.	3.1	11
64	Two Thieno[3,2â€•b]thiopheneâ€Based Small Molecules as Bifunctional Photoactive Materials for Organic Solar Cells. Solar Rrl, 2018, 2, 1700179.	3.1	12
65	An Unfusedâ€Coreâ€Based Nonfullerene Acceptor Enables Highâ€Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. Advanced Materials, 2018, 30, 1705208.	11.1	380
66	Systematic investigation of self-organization behavior in supramolecular Ï€-conjugated polymer for multi-color electroluminescence. Journal of Materials Chemistry C, 2018, 6, 1535-1542.	2.7	24
67	Fineâ€Tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54%. Advanced Materials, 2018, 30, 1706124.	11.1	253
68	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
69	Sideâ€Chain Optimization of Phthalimideâ˜Bithiophene Copolymers for Efficient Allâ€Polymer Solar Cells with Large Fill Factors. Asian Journal of Organic Chemistry, 2018, 7, 2239-2247.	1.3	4
70	Donorâ€“Acceptorâ€“Acceptor's Molecules for Vacuumâ€Deposited Organic Photovoltaics with Efficiency Exceeding 9%. Advanced Energy Materials, 2018, 8, 1703603.	10.2	33
71	A universal nonfullerene electron acceptor matching with different band-gap polymer donors for high-performance polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 6874-6881.	5.2	37
72	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

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73	A green route to a novel hyperbranched electrolyte interlayer for nonfullerene polymer solar cells with over 11% efficiency. Chemical Communications, 2018, 54, 563-566.	2.2	39
74	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
75	Fineâ€Tuning the Energy Levels of a Nonfullerene Smallâ€Molecule Acceptor to Achieve a High Shortâ€Circuit Current and a Power Conversion Efficiency over 12% in Organic Solar Cells. Advanced Materials, 2018, 30, 1704904.	11.1	214
76	Highly oriented two-dimensional formamidinium lead iodide perovskites with a small bandgap of 1.51 eV. Materials Chemistry Frontiers, 2018, 2, 121-128.	3.2	95
77	Overcoming the morphological and efficiency limit in all-polymer solar cells by designing conjugated random copolymers containing a naphtho[1,2-c:5,6-câ€²]bis([1,2,5]thiadiazole)] moiety. Journal of Materials Chemistry A, 2018, 6, 23295-23300.	5.2	15
78	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. Journal of Materials Chemistry A, 2018, 6, 24814-24822.	5.2	16
79	Highly oriented and ordered microstructures in block copolymer films. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1369-1375.	2.4	3
80	Nearâ€Infrared Ternary Tandem Solar Cells. Advanced Materials, 2018, 30, e1804416.	11.1	65
81	Fine-tuning of the chemical structure of photoactive materials for highly efficient organic photovoltaics. Nature Energy, 2018, 3, 1051-1058.	19.8	281
82	Phenylene-bridged perylenediimide-porphyrin acceptors for non-fullerene organic solar cells. Sustainable Energy and Fuels, 2018, 2, 2616-2624.	2.5	30
83	A Simple, Smallâ€Bandgap Porphyrinâ€Based Conjugated Polymer for Application in Organic Electronics. Macromolecular Rapid Communications, 2018, 39, e1800546.	2.0	7
84	High-efficiency small-molecule ternary solar cells with a hierarchical morphology enabled by synergizing fullerene and non-fullerene acceptors. Nature Energy, 2018, 3, 952-959.	19.8	558
85	Effect of Side Groups on the Photovoltaic Performance Based on Porphyrinâ€“Perylene Bisimide Electron Acceptors. ACS Applied Materials & Interfaces, 2018, 10, 32454-32461.	4.0	21
86	Optimized Fibril Network Morphology by Precise Sideâ€Chain Engineering to Achieve Highâ€Performance Bulkâ€Heterojunction Organic Solar Cells. Advanced Materials, 2018, 30, e1707353.	11.1	271
87	Nonfullerene Polymer Solar Cells Based on a Main-Chain Twisted Low-Bandgap Acceptor with Power Conversion Efficiency of 13.2%. ACS Energy Letters, 2018, 3, 1499-1507.	8.8	113
88	Asymmetrical Ladderâ€Type Donorâ€Induced Polar Small Molecule Acceptor to Promote Fill Factors Approaching 77% for Highâ€Performance Nonfullerene Polymer Solar Cells. Advanced Materials, 2018, 30, e1800052.	11.1	252
89	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. Journal of the American Chemical Society, 2018, 140, 8934-8943.	6.6	218
90	Short-axis substitution approach on ladder-type benzodithiophene-based electron acceptor toward highly efficient organic solar cells. Science China Chemistry, 2018, 61, 1405-1412.	4.2	16

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91	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. Advanced Energy Materials, 2018, 8, 1801214.	10.2	47
92	An Electron Acceptor with Broad Visibleâ€“NIR Absorption and Unique Solid State Packing for Asâ€Cast High Performance Binary Organic Solar Cells. Advanced Functional Materials, 2018, 28, 1802324.	7.8	116
93	Improved Efficiency of Polymer Solar Cells by Modifying the Side Chain of Wide-Band Gap Conjugated Polymers Containing Pyrrolo[3,4-f]benzotriazole-5,7(6H)-dione Moiety. ACS Applied Materials & Interfaces, 2018, 10, 22495-22503.	4.0	22
94	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
95	Guiding kinetic trajectories between jammed and unjammed states in 2D colloidal nanocrystal-polymer assemblies with zwitterionic ligands. Science Advances, 2018, 4, eaap8045.	4.7	24
96	Ternary non-fullerene polymer solar cells with 13.51% efficiency and a record-high fill factor of 78.13%. Energy and Environmental Science, 2018, 11, 3392-3399.	15.6	143
97	Efficient Organic Solar Cells with Extremely High Openâ€Circuit Voltages and Low Voltage Losses by Suppressing Nonradiative Recombination Losses. Advanced Energy Materials, 2018, 8, 1801699.	10.2	117
98	A low-bandgap dimeric porphyrin molecule for 10% efficiency solar cells with small photon energy loss. Journal of Materials Chemistry A, 2018, 6, 18469-18478.	5.2	40
99	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. Chemistry of Materials, 2018, 30, 5429-5434.	3.2	194
100	A Highly Efficient Nonâ€Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fineâ€Tuned Holeâ€Transporting Layer. Advanced Materials, 2018, 30, e1801801.	11.1	360
101	Ternary polymer solar cells based-on two polymer donors with similar HOMO levels and an organic acceptor with absorption extending to 850â€¯nm. Organic Electronics, 2018, 62, 89-94.	1.4	10
102	Aligned and Graded Typeâ€I Ruddlesdenâ€“Popper Perovskite Films for Efficient Solar Cells. Advanced Energy Materials, 2018, 8, 1800185.	10.2	247
103	Subtle Side-Chain Engineering of Random Terpolymers for High-Performance Organic Solar Cells. Chemistry of Materials, 2018, 30, 3294-3300.	3.2	64
104	Highâ€Performance Green Solvent Processed Ternary Blended Allâ€Polymer Solar Cells Enabled by Complementary Absorption and Improved Morphology. Solar Rrl, 2018, 2, 1800196.	3.1	26
105	Designing an asymmetrical isomer to promote the LUMO energy level and molecular packing of a non-fullerene acceptor for polymer solar cells with 12.6% efficiency. Chemical Science, 2018, 9, 8142-8149.	3.7	67
106	High-efficiency quaternary polymer solar cells enabled with binary fullerene additives to reduce nonfullerene acceptor optical band gap and improve carriers transport. Science China Chemistry, 2018, 61, 1609-1618.	4.2	28
107	Morphology Control Enables Efficient Ternary Organic Solar Cells. Advanced Materials, 2018, 30, e1803045.	11.1	243
108	Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. ACS Energy Letters, 2018, 3, 2086-2093.	8.8	224

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109	Branched 2â€Ethylhexyl Substituted Indacenodithieno[3,2â€b]Thiophene Core Enabling Wideâ€Bandgap Small Molecule for Fulleneâ€Based Organic Solar Cells with 9.15% Efficiency: Effect of Length and Position of Fused Polycyclic Aromatic Units. Solar Rrl, 2018, 2, 1800108.	3.1	8
110	Enhancing the Performance of Organic Solar Cells by Hierarchically Supramolecular Self-Assembly of Fused-Ring Electron Acceptors. Chemistry of Materials, 2018, 30, 4307-4312.	3.2	116
111	Applying the heteroatom effect of chalcogen for high-performance small-molecule solar cells. Journal of Materials Chemistry A, 2017, 5, 3425-3433.	5.2	14
112	High-Performance Organic Field-Effect Transistors Fabricated Based on a Novel Ternary Ï€-Conjugated Copolymer. ACS Applied Materials & Interfaces, 2017, 9, 7315-7321.	4.0	27
113	1,3-Bis(thieno[3,4-b]thiophen-6-yl)-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione-Based Small-Molecule Donor for Efficient Solution-Processed Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 6213-6219.	4.0	20
114	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. Advanced Energy Materials, 2017, 7, 1602215.	10.2	92
115	Effects of alkyl chains on intermolecular packing and device performance in small molecule based organic solar cells. Dyes and Pigments, 2017, 141, 262-268.	2.0	11
116	Vinazene end-capped acceptor-donor-acceptor type small molecule for solution-processed organic solar cells. Organic Electronics, 2017, 44, 11-19.	1.4	5
117	Fine-tuning solid state packing and significantly improving photovoltaic performance of conjugated polymers through side chain engineering via random polymerization. Journal of Materials Chemistry A, 2017, 5, 5585-5593.	5.2	20
118	A Novel Thiophene-Fused Ending Group Enabling an Excellent Small Molecule Acceptor for High-Performance Fullerene-Free Polymer Solar Cells with 11.8% Efficiency. Solar Rrl, 2017, 1, 1700044.	3.1	198
119	Low band-gap conjugated polymer based on diketopyrrolopyrrole units and its application in organic photovoltaic cells. Journal of Materials Chemistry A, 2017, 5, 10416-10423.	5.2	23
120	Achieving Highâ€Performance Ternary Organic Solar Cells through Tuning Acceptor Alloy. Advanced Materials, 2017, 29, 1603154.	11.1	171
121	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. Nature Photonics, 2017, 11, 85-90.	15.6	510
122	Enhancing Performances of Solutionâ€Processed Inverted Ternary Smallâ€Molecule Organic Solar Cells: Manipulating the Hostâ€Guest Donors and Acceptor Interaction. Solar Rrl, 2017, 1, 1600003.	3.1	15
123	Efficient and 1,8-diiodooctane-free ternary organic solar cells fabricated via nanoscale morphology tuning using small-molecule dye additive. Nano Research, 2017, 10, 3765-3774.	5.8	20
124	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [PbI6]4â^' cage nanoparticles. Nature Communications, 2017, 8, 15688.	5.8	191
125	Fabrication of compact and stable perovskite films with optimized precursor composition in the fast-growing procedure. Science China Materials, 2017, 60, 608-616.	3.5	12
126	Smallâ€Molecule Solar Cells with Simultaneously Enhanced Shortâ€Circuit Current and Fill Factor to Achieve 11% Efficiency. Advanced Materials, 2017, 29, 1700616.	11.1	87

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127	Applying Thienyl Side Chains and Different Ï€-Bridge to Aromatic Side-Chain Substituted Indacenodithiophene-Based Small Molecule Donors for High-Performance Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 19998-20009.	4.0	9
128	Small Molecules with Asymmetric 4-Alkyl-8-alkoxybenzo[1,2-b:4,5-bâ€²]dithiophene as the Central Unit for High-Performance Solar Cells with High Fill Factors. Chemistry of Materials, 2017, 29, 3694-3703.	3.2	28
129	Small-Molecule Acceptor Based on the Heptacyclic Benzodi(cyclopentadithiophene) Unit for Highly Efficient Nonfullerene Organic Solar Cells. Journal of the American Chemical Society, 2017, 139, 4929-4934.	6.6	459
130	Efficient Semitransparent Solar Cells with High NIR Responsiveness Enabled by a Smallâ€Bandgap Electron Acceptor. Advanced Materials, 2017, 29, 1606574.	11.1	252
131	Head-to-Head Linkage Containing Dialkoxybithiophene-Based Polymeric Semiconductors for Polymer Solar Cells with Large Open-Circuit Voltages. Macromolecules, 2017, 50, 137-150.	2.2	37
132	26â€¯mAâ€¯cmâ^'2 Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. Science Bulletin, 2017, 62, 1494-1496.	4.3	368
133	Insertion of double bond Ï€-bridges of Aâ€“Dâ€“A acceptors for high performance near-infrared polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 22588-22597.	5.2	61
134	Donorâ€“Acceptor Conjugated Macrocycles: Synthesis and Hostâ€“Guest Coassembly with Fullerene toward Photovoltaic Application. ACS Nano, 2017, 11, 11701-11713.	7.3	64
135	A Twisted Thieno[3,4â€b]thiopheneâ€Based Electron Acceptor Featuring a 14â€Ï€â€Electron Indenoindene Core for Highâ€Performance Organic Photovoltaics. Advanced Materials, 2017, 29, 1704510.	11.1	196
136	Regioisomeric Non-Fullerene Acceptors Containing Fluorobenzo[c][1,2,5]thiadiazole Unit for Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 37087-37093.	4.0	33
137	Macroscopically ordered hexagonal arrays by directed self-assembly of block copolymers with minimal topographic patterns. Nanoscale, 2017, 9, 14888-14896.	2.8	17
138	An A-D-A Type Small-Molecule Electron Acceptor with End-Extended Conjugation for High Performance Organic Solar Cells. Chemistry of Materials, 2017, 29, 7908-7917.	3.2	139
139	Isomeric Effects of Solution Processed Ladderâ€Type Nonâ€Fullerene Electron Acceptors. Solar Rrl, 2017, 1, 1700107.	3.1	44
140	Design of a Highly Crystalline Low-Band Gap Fused-Ring Electron Acceptor for High-Efficiency Solar Cells with Low Energy Loss. Chemistry of Materials, 2017, 29, 8369-8376.	3.2	180
141	Self-Regulated Nanoparticle Assembly at Liquid/Liquid Interfaces: A Route to Adaptive Structuring of Liquids. Langmuir, 2017, 33, 7994-8001.	1.6	43
142	High efficiency organic solar cells based on amorphous electron-donating polymer and modified fullerene acceptor. Nano Energy, 2017, 39, 478-488.	8.2	62
143	Circumventing UV Light Induced Nanomorphology Disorder to Achieve Long Lifetime PTB7â€Th:PCBM Based Solar Cells. Advanced Energy Materials, 2017, 7, 1701201.	10.2	67
144	Low band gap conjugated polymers combining siloxane-terminated side chains and alkyl side chains: side-chain engineering achieving a large active layer processing window for PCE > 10% in polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 17619-17631.	5.2	116

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145	Printing Fabrication of Bulk Heterojunction Solar Cells and In Situ Morphology Characterization. Journal of Visualized Experiments, 2017, , .	0.2	1
146	Thiophene Rings Improve the Device Performance of Conjugated Polymers in Polymer Solar Cells with Thick Active Layers. Advanced Energy Materials, 2017, 7, 1700519.	10.2	49
147	High Performing Ternary Solar Cells through FÃ¶rster Resonance Energy Transfer between Nonfullerene Acceptors. ACS Applied Materials & Interfaces, 2017, 9, 26928-26936.	4.0	44
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