Yongfang Li

List of Publications by Year
in descending order

513 papers	58,561 citations	1377 111 h-index	1446 226 g-index
521 all docs	521 docs citations	521 times ranked	26438 citing authors

#	Article	IF	Citations
1	18.55% Efficiency Polymer Solar Cells Based on a Small Molecule Acceptor with Alkylthienyl Outer Side Chains and a Low-Cost Polymer Donor PTQ10. CCS Chemistry, 2023, 5, 841-850.	4.6	45
2	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
3	Quinoxalineâ€Based Dâ€“A Copolymers for the Applications as Polymer Donor and Hole Transport Material in Polymer/Perovskite Solar Cells. Advanced Materials, 2022, 34, e2104161.	11.1	35
4	Surface Reconstruction for Stable Monolithic Allâ€Inorganic Perovskite/Organic Tandem Solar Cells with over 21% Efficiency. Advanced Functional Materials, 2022, 32, .	7.8	47
5	Annealing- and doping-free hole transport material for p-i-n perovskite solar cells with efficiency achieving over 21%. Chemical Engineering Journal, 2022, 433, 133265.	6.6	11
6	Introducing Lowâ€Cost Pyrazine Unit into Terpolymer Enables Highâ€Performance Polymer Solar Cells with Efficiency of 18.23%. Advanced Functional Materials, 2022, 32, 2109271.	7.8	49
7	Nanoporous Polymer Reflectors for Organic Solar Cells. Energy Technology, 2022, 10, 2100676.	1.8	5
8	Conjugated Mesopolymer Achieving 15% Efficiency Singleâ€Junction Organic Solar Cells. Advanced Science, 2022, 9, e2105430.	5.6	20
9	Constructing Monolithic Perovskite/Organic Tandem Solar Cell with Efficiency of 22.0% via Reduced Openâ€Circuit Voltage Loss and Broadened Absorption Spectra. Advanced Materials, 2022, 34, e2108829.	11.1	56
10	Influence of altering chlorine substitution positions on the photovoltaic properties of small molecule donors in all-small-molecule organic solar cells. Journal of Materials Chemistry C, 2022, 10, 2017-2025.	2.7	12
11	Highâ€Polarizability Organic Ferroelectric Materials Doping for Enhancing the Builtâ€In Electric Field of Perovskite Solar Cells Realizing Efficiency over 24%. Advanced Materials, 2022, 34, e2110482.	11.1	65
12	The effect of alkyl substitution position of thienyl outer side chains on photovoltaic performance of Aâ€“DAâ€²Dâ€“A type acceptors. Energy and Environmental Science, 2022, 15, 2011-2020.	15.6	73
13	Peryleneâ€diimideâ€based cathode interlayer materials for high performance organic solar cells. SusMat, 2022, 2, 243-263.	7.8	38
14	15.71% Efficiency Allâ€Smallâ€Molecule Organic Solar Cells Based on Lowâ€Cost Synthesized Donor Molecules. Advanced Functional Materials, 2022, 32, .	7.8	34
15	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	4.2	349
16	Realizing 17.5% Efficiency Flexible Organic Solar Cells via Atomic-Level Chemical Welding of Silver Nanowire Electrodes. Journal of the American Chemical Society, 2022, 144, 8658-8668.	6.6	116
17	2â€²- and 3â€²-Ribose Modifications of Nucleotide Analogues Establish the Structural Basis to Inhibit the Viral Replication of SARS-CoV-2. Journal of Physical Chemistry Letters, 2022, 13, 4111-4118.	2.1	11
18	â€œReinforced concreteâ€•like flexible transparent electrode for organic solar cells with high efficiency and mechanical robustness. Science China Chemistry, 2022, 65, 1164-1172.	4.2	23

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19	Fluid Mechanics Inspired Sequential Bladeâ€Coating for Highâ€Performance Largeâ€Area Organic Solar Modules. Advanced Functional Materials, 2022, 32, .	7.8	36
20	Effect of Isomerization of Linking Units on the Photovoltaic Performance of PSMA-Type Polymer Acceptors in All-Polymer Solar Cells. Macromolecules, 2022, 55, 4420-4428.	2.2	11
21	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
22	High-efficiency single-junction organic solar cells enabled by double-fibril network morphology. Science Bulletin, 2022, 67, 1310-1312.	4.3	5
23	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	4.2	157
24	Fluorinated Peryleneâ€Diimides: Cathode Interlayers Facilitating Carrier Collection for Highâ€Performance Organic Solar Cells. Advanced Materials, 2022, 34, .	11.1	62
25	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
26	Low-cost synthesis of small molecule acceptors makes polymer solar cells commercially viable. Nature Communications, 2022, 13, .	5.8	38
27	Highly Efficient Layerâ€byâ€Layer Processed Quaternary Organic Solar Cells with Improved Charge Transport and Reduced Energy Loss. Solar Rrl, 2022, 6, .	3.1	10
28	3D surfactant-dispersed graphenes as cathode interfacial materials for organic solar cells. Science China Materials, 2021, 64, 277-287.	3.5	13
29	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
30	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	10.2	93
31	Benzotriazole Based 2D-conjugated Polymer Donors for High Performance Polymer Solar Cells. Chinese Journal of Polymer Science (English Edition), 2021, 39, 1-13.	2.0	74
32	High electron mobility fluorinated indacenodithiophene small molecule acceptors for organic solar cells. Chinese Chemical Letters, 2021, 32, 1257-1262.	4.8	15
33	Polymerized Smallâ€Molecule Acceptors for Highâ€Performance Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 4422-4433.	7.2	318
34	Polymerized Smallâ€Molecule Acceptors for Highâ€Performance Allâ€Polymer Solar Cells. Angewandte Chemie, 2021, 133, 4470-4481.	1.6	22
35	High performance tandem organic solar cells via a strongly infrared-absorbing narrow bandgap acceptor. Nature Communications, 2021, 12, 178.	5.8	122
36	High-performance all-small-molecule organic solar cells without interlayers. Energy and Environmental Science, 2021, 14, 3174-3183.	15.6	43

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37	Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. Nano-Micro Letters, 2021, 13, 44.	14.4	71
38	Highly efficient fused ring electron acceptors based on a new undecacyclic core. Materials Chemistry Frontiers, 2021, 5, 2001-2006.	3.2	3
39	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
40	Low-temperature-processed metal oxide electron transport layers for efficient planar perovskite solar cells. Rare Metals, 2021, 40, 2730-2746.	3.6	34
41	Reducing Energy Disorder of Hole Transport Layer by Charge Transfer Complex for High Performance pâ€“iâ€“n Perovskite Solar Cells. Advanced Materials, 2021, 33, e2006753.	11.1	69
42	Fluorinating Dopant-Free Small-Molecule Hole-Transport Material to Enhance the Photovoltaic Property. ACS Applied Materials & Interfaces, 2021, 13, 7705-7713.	4.0	25
43	Morphology optimization of photoactive layers in organic solar cells. Aggregate, 2021, 2, e31.	5.2	63
44	Single-wall carbon nanotube-containing cathode interfacial materials for high performance organic solar cells. Science China Chemistry, 2021, 64, 565-575.	4.2	5
45	Nonradiative Triplet Loss Suppressed in Organic Photovoltaic Blends with Fluoridated Nonfullerene Acceptors. Journal of the American Chemical Society, 2021, 143, 4359-4366.	6.6	60
46	Oneâ€Source Strategy Boosting Dopantâ€Free Hole Transporting Layers for Highly Efficient and Stable CsPbI₂Br Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2010696.	7.8	50
47	A Quinoxalineâ€Based Dâ€“A Copolymer Donor Achieving 17.62% Efficiency of Organic Solar Cells. Advanced Materials, 2021, 33, e2100474.	11.1	155
48	A Largeâ€Bandgap Guest Material Enabling Improved Efficiency and Reduced Energy Loss for Ternary Polymer Solar Cells. Solar Rrl, 2021, 5, 2100013.	3.1	5
49	Non-equivalent D-A copolymerization strategy towards highly efficient polymer donor for polymer solar cells. Science China Chemistry, 2021, 64, 1031-1038.	4.2	25
50	Nonâ€Halogenatedâ€Solvent Processed and Additiveâ€Free Tandem Organic Solar Cell with Efficiency Reaching 16.67%. Advanced Functional Materials, 2021, 31, 2102361.	7.8	40
51	Molecular Properties and Aggregation Behavior of Small-Molecule Acceptors Calculated by Molecular Simulation. ACS Omega, 2021, 6, 14467-14475.	1.6	5
52	A unified description of non-radiative voltage losses in organic solar cells. Nature Energy, 2021, 6, 799-806.	19.8	235
53	Anthraceneâ€Assisted Morphology Optimization in Photoactive Layer for Highâ€Efficiency Polymer Solar Cells. Advanced Functional Materials, 2021, 31, 2103944.	7.8	51
54	Fine-Tuning Miscibility and Ï€â€“Ï€ Stacking by Alkylthio Side Chains of Donor Molecules Enables High-Performance All-Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 36033-36043.	4.0	27

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55	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
56	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 19053-19057.	7.2	43
57	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. Angewandte Chemie, 2021, 133, 19201-19205.	1.6	2
58	Flexible and Airâ€Stable Nearâ€Infrared Sensors Based on Solutionâ€Processed Inorganicâ€"Organic Hybrid Phototransistors. Advanced Functional Materials, 2021, 31, 2105887.	7.8	47
59	Stabilization of formamidinium lead iodide perovskite precursor solution for blade-coating efficient carbon electrode perovskite solar cells*. Chinese Physics B, 2021, 30, 088803.	0.7	6
60	Elastic Lattice and Excess Charge Carrier Manipulation in 1Dâ€"3D Perovskite Solar Cells for Exceptionally Longâ€Term Operational Stability. Advanced Materials, 2021, 33, e2105170.	11.1	78
61	Polymerized small molecular acceptor based all-polymer solar cells with an efficiency of 16.16% via tuning polymer blend morphology by molecular design. Nature Communications, 2021, 12, 5264.	5.8	170
62	PEDOT:PSSâ€Free Polymer Nonâ€Fullerene Polymer Solar Cells with Efficiency up to 18.60% Employing a Binaryâ€Solventâ€Chlorinated ITO Anode. Advanced Functional Materials, 2021, 31, 2106846.	7.8	40
63	Effects of the Center Units of Smallâ€Molecule Donors on the Morphology, Photovoltaic Performance, and Device Stability of Allâ€Smallâ€Molecule Organic Solar Cells. Solar Rrl, 2021, 5, 2100515.	3.1	10
64	Fused-ring acceptors based on quinoxaline unit for highly efficient single-junction organic solar cells with low charge recombination. Organic Electronics, 2021, 98, 106282.	1.4	4
65	Medium band-gap non-fullerene acceptors based on a benzothiophene donor moiety enabling high-performance indoor organic photovoltaics. Energy and Environmental Science, 2021, 14, 4555-4563.	15.6	43
66	A small molecule acceptor with a heptacyclic benzodi(thienocyclopentafuran) central unit achieving 13.4% efficiency in polymer solar cells with low energy loss. Journal of Materials Chemistry C, 2021, 9, 2744-2751.	2.7	10
67	Low-Bandgap Non-fullerene Acceptors Enabling High-Performance Organic Solar Cells. ACS Energy Letters, 2021, 6, 598-608.	8.8	175
68	Introducing Electron-Withdrawing Linking Units and Thiophene Ï€-Bridges into Polymerized Small Molecule Acceptors for High-Efficiency All-Polymer Solar Cells. Chemistry of Materials, 2021, 33, 8212-8222.	3.2	17
69	Multifunctional Polymer Framework Modified SnO₂ Enabling a Photostable Î±-FAPbI₃ Perovskite Solar Cell with Efficiency Exceeding 23%. ACS Energy Letters, 2021, 6, 3824-3830.	8.8	93
70	Modulating Crystal Packing, Film Morphology, and Photovoltaic Performance of Selenophene-Containing Acceptors through a Combination of Skeleton Isomeric and Regioisomeric Strategies. ACS Applied Materials & Interfaces, 2021, 13, 50163-50175.	4.0	13
71	Stable perovskite solar cells with efficiency of 22.6% via quinoxaline-based polymeric hole transport material. Science China Chemistry, 2021, 64, 2035-2044.	4.2	28
72	A guest-assisted molecular-organization approach for >17% efficiency organic solar cells using environmentally friendly solvents. Nature Energy, 2021, 6, 1045-1053.	19.8	230

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73	Large-area flexible organic solar cells. Npj Flexible Electronics, 2021, 5, .	5.1	69
74	Effects of Alkyl Side Chains of Small Molecule Donors on Morphology and the Photovoltaic Property of All-Small-Molecule Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 54237-54245.	4.0	13
75	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	10.2	66
76	A Cost-Effective Alpha-Fluorinated Bithienyl Benzodithiophene Unit for High-Performance Polymer Donor Material. ACS Applied Materials & Interfaces, 2021, 13, 55403-55411.	4.0	5
77	Hot-Casting and Anti-solvent Free Fabrication of Efficient and Stable Two-Dimensional Ruddlesdenâ€“Popper Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 61039-61046.	4.0	8
78	Effects of Shortâ€Axis Alkoxy Substituents on Molecular Selfâ€Assembly and Photovoltaic Performance of Indacenodithiopheneâ€Based Acceptors. Advanced Functional Materials, 2020, 30, 1906855.	7.8	50
79	Hydrophilic Fullerene Derivative Doping in Active Layer and Electron Transport Layer for Enhancing Oxygen Stability of Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900249.	3.1	11
80	Dibenzo[<i>b</i>,<i>d</i>]thiopheneâ€Cored Holeâ€Transport Material with Passivation Effect Enabling the Highâ€Efficiency Planar pâ€“iâ€“n Perovskite Solar Cells with 83% Fill Factor. Solar Rrl, 2020, 4, 1900421.	3.1	47
81	Challenges to the Stability of Active Layer Materials in Organic Solar Cells. Macromolecular Rapid Communications, 2020, 41, e1900437.	2.0	55
82	A Layer-by-Layer Architecture for Printable Organic Solar Cells Overcoming the Scaling Lag of Module Efficiency. Joule, 2020, 4, 407-419.	11.7	272
83	High Efficiency Polymer Solar Cells with Efficient Hole Transfer at Zero Highest Occupied Molecular Orbital Offset between Methylated Polymer Donor and Brominated Acceptor. Journal of the American Chemical Society, 2020, 142, 1465-1474.	6.6	344
84	High-efficiency planar p-i-n perovskite solar cells based on dopant-free dibenzo[b,d]furan-centred linear hole transporting material. Journal of Power Sources, 2020, 449, 227488.	4.0	18
85	Impact of Isomer Design on Physicochemical Properties and Performance in High-Efficiency All-Polymer Solar Cells. Macromolecules, 2020, 53, 9026-9033.	2.2	25
86	Effect of the chlorine substitution position of the end-group on intermolecular interactions and photovoltaic performance of small molecule acceptors. Energy and Environmental Science, 2020, 13, 5028-5038.	15.6	56
87	Silicon and oxygen synergistic effects for the discovery of new high-performance nonfullerene acceptors. Nature Communications, 2020, 11, 5814.	5.8	29
88	Fine-tuning HOMO energy levels between PM6 and PBDB-T polymer donors via ternary copolymerization. Science China Chemistry, 2020, 63, 1256-1261.	4.2	38
89	In-situ stabilization strategy for CsPbX3-Silicone resin composite with enhanced luminescence and stability. Nano Energy, 2020, 78, 105150.	8.2	18
90	Spatial Distribution Recast for Organic Bulk Heterojunctions for Highâ€Performance Allâ€Inorganic Perovskite/Organic Integrated Solar Cells. Advanced Energy Materials, 2020, 10, 2000851.	10.2	34

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91	Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. Advanced Energy Materials, 2020, 10, 2001589.	10.2	33
92	Efficient Asâ€Cast Polymer Solar Cells with High and Stabilized Fill Factor. Solar Rrl, 2020, 4, 2000275.	3.1	7
93	A low boiling-point and low-cost fluorinated additive improves the efficiency and stability of organic solar cells. Journal of Materials Chemistry C, 2020, 8, 15296-15302.	2.7	10
94	Utilizing an electron-deficient thieno[3,4-<i>c</i>]pyrrole-4,6-dione (TPD) unit as a Ï€-bridge to improve the photovoltaic performance of Aâ€“Ï€â€“Dâ€“Ï€â€“A type acceptors. Journal of Materials Chemistry C, 2020, 8, 15981-15984.	2.7	24
95	Interfacial Dipole in Organic and Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 18281-18292.	6.6	182
96	Transparent Holeâ€Transporting Frameworks: A Unique Strategy to Design Highâ€Performance Semitransparent Organic Photovoltaics. Advanced Materials, 2020, 32, e2003891.	11.1	60
97	A review: crystal growth for high-performance all-inorganic perovskite solar cells. Energy and Environmental Science, 2020, 13, 1971-1996.	15.6	156
98	Printable SnO2 cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. Science China Chemistry, 2020, 63, 957-965.	4.2	38
99	Highâ€Performance Allâ€Polymer Solar Cells: Synthesis of Polymer Acceptor by a Random Ternary Copolymerization Strategy. Angewandte Chemie, 2020, 132, 15293-15297.	1.6	18
100	Dopant-free hole transporting materials with supramolecular interactions and reverse diffusion for efficient and modular p-i-n perovskite solar cells. Science China Chemistry, 2020, 63, 987-996.	4.2	42
101	Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. Nature Communications, 2020, 11, 2726.	5.8	467
102	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
103	Rapidly sequence-controlled electrosynthesis of organometallic polymers. Nature Communications, 2020, 11, 2530.	5.8	30
104	Volatilizable and cost-effective quinone-based solid additives for improving photovoltaic performance and morphological stability in non-fullerene polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 13049-13058.	5.2	41
105	A â€œÏƒ-Holeâ€•Containing Volatile Solid Additive Enabling 16.5% Efficiency Organic Solar Cells. IScience, 2020, 23, 100965.	1.9	61
106	A Nonâ€Fullerene Acceptor with Chlorinated Thienyl Conjugated Side Chains for Highâ€Performance Polymer Solar Cells via Toluene Processing. Chinese Journal of Chemistry, 2020, 38, 697-702.	2.6	20
107	Twoâ€Dimension Conjugated Acceptors Based on Benzodi(cyclopentadithiophene) Core with Thiopheneâ€Fused Ending Group for Efficient Polymer Solar Cells. Solar Rrl, 2020, 4, 2000071.	3.1	12
108	Dâ€“A Copolymer Donor Based on Bithienyl Benzodithiophene D-Unit and Monoalkoxy Bifluoroquinoxaline A-Unit for High-Performance Polymer Solar Cells. Chemistry of Materials, 2020, 32, 3254-3261.	3.2	43

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109	Metalâ€microstructure based flexible transparent electrodes and their applications in electronic devices. Nano Select, 2020, 1, 169-182.	1.9	20
110	An intermeshing electron transporting layer for efficient and stable CsPbI₂Br perovskite solar cells with open circuit voltage over 1.3 V. Journal of Materials Chemistry A, 2020, 8, 14555-14565.	5.2	24
111	High-performance all-polymer solar cells with only 0.47 eV energy loss. Science China Chemistry, 2020, 63, 1449-1460.	4.2	62
112	Organic Nâ€Type Molecule: Managing the Electronic States of Bulk Perovskite for Highâ€Performance Photovoltaics. Advanced Functional Materials, 2020, 30, 2001788.	7.8	49
113	Realizing Ultrahigh Mechanical Flexibility and >15% Efficiency of Flexible Organic Solar Cells via a â€œWeldingâ€•Flexible Transparent Electrode. Advanced Materials, 2020, 32, e1908478.	11.1	216
114	Mechanically Robust All-Polymer Solar Cells from Narrow Band Gap Acceptors with Hetero-Bridging Atoms. Joule, 2020, 4, 658-672.	11.7	279
115	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
116	Benzodithiophenedione-based polymers: recent advances in organic photovoltaics. NPG Asia Materials, 2020, 12, .	3.8	96
117	Understanding the Morphology of High-Performance Solar Cells Based on a Low-Cost Polymer Donor. ACS Applied Materials & Interfaces, 2020, 12, 9537-9544.	4.0	17
118	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. Advanced Functional Materials, 2020, 30, 2000456.	7.8	164
119	Highly Efficient Allâ€Smallâ€Molecule Organic Solar Cells with Appropriate Active Layer Morphology by Side Chain Engineering of Donor Molecules and Thermal Annealing. Advanced Materials, 2020, 32, e1908373.	11.1	162
120	Ultrafast Hole Transfer and Carrier Transport Controlled by Nanoscale-Phase Morphology in Nonfullerene Organic Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 3226-3233.	2.1	94
121	Green solvent-processed organic solar cells based on a low cost polymer donor and a small molecule acceptor. Journal of Materials Chemistry C, 2020, 8, 7718-7724.	2.7	40
122	Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. Science China Chemistry, 2020, 63, 1159-1168.	4.2	92
123	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
124	Realizing high photovoltage for inverted planar heterojunction perovskite solar cells. Science China Chemistry, 2019, 62, 1-2.	4.2	19
125	Thioether Bond Modification Enables Boosted Photovoltaic Performance of Nonfullerene Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 32218-32224.	4.0	16
126	Achieving Fast Charge Separation and Low Nonradiative Recombination Loss by Rational Fluorination for Highâ€Efficiency Polymer Solar Cells. Advanced Materials, 2019, 31, e1905480.	11.1	162

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127	Targeted Therapy for Interfacial Engineering Toward Stable and Efficient Perovskite Solar Cells. Advanced Materials, 2019, 31, e1903691.	11.1	125
128	Highly Efficient Semitransparent Organic Solar Cells with Color Rendering Index Approaching 100. Advanced Materials, 2019, 31, e1807159.	11.1	152
129	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
130	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
131	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. Journal of the American Chemical Society, 2019, 141, 3073-3082.	6.6	362
132	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. Nature Communications, 2019, 10, 519.	5.8	231
133	Solutionâ€Processed Tin Oxideâ€PEDOT:PSS Interconnecting Layers for Efficient Inverted and Conventional Tandem Polymer Solar Cells. Solar Rrl, 2019, 3, 1800366.	3.1	22
134	Ultrafast hole transfer mediated by polaron pairs in all-polymer photovoltaic blends. Nature Communications, 2019, 10, 398.	5.8	56
135	A new dialkylthio-substituted naphtho[2,3-<i>c</i>]thiophene-4,9-dione based polymer donor for high-performance polymer solar cells. Energy and Environmental Science, 2019, 12, 675-683.	15.6	71
136	A universal layer-by-layer solution-processing approach for efficient non-fullerene organic solar cells. Energy and Environmental Science, 2019, 12, 384-395.	15.6	193
137	Synergistic Effects of Sideâ€Chain Engineering and Fluorination on Small Molecule Acceptors to Simultaneously Broaden Spectral Response and Minimize Voltage Loss for 13.8% Efficiency Organic Solar Cells. Solar Rrl, 2019, 3, 1900169.	3.1	22
138	Effect of Replacing Thiophene by Selenophene on the Photovoltaic Performance of Wide Bandgap Copolymer Donors. Macromolecules, 2019, 52, 4776-4784.	2.2	26
139	Interfacial engineering and optical coupling for multicolored semitransparent inverted organic photovoltaics with a record efficiency of over 12%. Journal of Materials Chemistry A, 2019, 7, 15887-15894.	5.2	83
140	A wide-bandgap Dâ€"A copolymer donor based on a chlorine substituted acceptor unit for high performance polymer solar cells. Journal of Materials Chemistry A, 2019, 7, 14070-14078.	5.2	68
141	Efficient as-cast semi-transparent organic solar cells with efficiency over 9% and a high average visible transmittance of 27.6%. Physical Chemistry Chemical Physics, 2019, 21, 10660-10666.	1.3	29
142	Modulating morphology via side-chain engineering of fused ring electron acceptors for high performance organic solar cells. Science China Chemistry, 2019, 62, 790-796.	4.2	26
143	Breaking 12% efficiency in flexible organic solar cells by using a composite electrode. Science China Chemistry, 2019, 62, 851-858.	4.2	60
144	Synergetic Transparent Electrode Architecture for Efficient Non-Fullerene Flexible Organic Solar Cells with >12% Efficiency. ACS Nano, 2019, 13, 4686-4694.	7.3	86

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145	Ring-perfluorinated non-volatile additives with a high dielectric constant lead to highly efficient and stable organic solar cells. Journal of Materials Chemistry C, 2019, 7, 4716-4724.	2.7	29
146	Fluorinated heptacyclic carbazole-based ladder-type acceptors with aliphatic side chains for efficient fullerene-free organic solar cells. Materials Chemistry Frontiers, 2019, 3, 829-835.	3.2	21
147	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
148	11.2% Efficiency all-polymer solar cells with high open-circuit voltage. Science China Chemistry, 2019, 62, 845-850.	4.2	140
149	A Simple Approach to Prepare Chlorinated Polymer Donors with Low-Lying HOMO Level for High Performance Polymer Solar Cells. Chemistry of Materials, 2019, 31, 6558-6567.	3.2	50
150	High Efficiency Planar pâ€iâ€n Perovskite Solar Cells Using Lowâ€Cost Fluoreneâ€Based Hole Transporting Material. Advanced Functional Materials, 2019, 29, 1900484.	7.8	59
151	Highly Efficient Flexible Polymer Solar Cells with Robust Mechanical Stability. Advanced Science, 2019, 6, 1801180.	5.6	49
152	Introducing an identical benzodithiophene donor unit for polymer donors and small-molecule acceptors to unveil the relationship between the molecular structure and photovoltaic performance of non-fullerene organic solar cells. Journal of Materials Chemistry A, 2019, 7, 26351-26357.	5.2	18
153	Polymer Solar Cells: Ternary Polymer Solar Cells Facilitating Improved Efficiency and Stability (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock	11.1	9
154	High-performance conjugated polymer donor materials for polymer solar cells with narrow-bandgap nonfullerene acceptors. Energy and Environmental Science, 2019, 12, 3225-3246.	15.6	236
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