Zhi-Xiang Wei

List of Publications by Year
in descending order

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275 papers	28,860 citations	6592 79 h-index	5663 162 g-index
281 all docs	281 docs citations	281 times ranked	20474 citing authors

#	Article	IF	Citations
1	Single-bond-linked oligomeric donors for high performance organic solar cells. Chinese Chemical Letters, 2023, 34, 107321.	4.8	3
2	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
3	Simple Nonfusedâ€Ring Electron Acceptors with Noncovalently Conformational Locks for Lowâ€Cost and Highâ€Performance Organic Solar Cells Enabled by Endâ€Group Engineering. Advanced Functional Materials, 2022, 32, 2108861.	7.8	84
4	Precise Control of Crystal Orientation of Conjugated Molecule Enables Anisotropic Charge Transport Properties. Advanced Functional Materials, 2022, 32, 2110080.	7.8	7
5	High Miscibility Compatible with Ordered Molecular Packing Enables an Excellent Efficiency of 16.2% in Allâ€Smallâ€Molecule Organic Solar Cells. Advanced Materials, 2022, 34, e2106316.	11.1	74
6	Polymerized Smallâ€Molecule Acceptor as an Interface Modulator to Increase the Performance of Allâ€Smallâ€Molecule Solar Cells. Advanced Energy Materials, 2022, 12, 2102394.	10.2	15
7	Low nonradiative energy losses within 0.2 eV in efficient non-fullerene all-small-molecule organic solar cells. Journal of Materials Chemistry C, 2022, 10, 2800-2806.	2.7	9
8	Efficient charge generation and low open circuit voltage loss enable a PCE of 10.3% in small molecule donor and polymer acceptor organic solar cells. Journal of Materials Chemistry C, 2022, 10, 2639-2647.	2.7	2
9	Building Supramolecular Chirality in Bulk Heterojunctions Enables Amplified Dissymmetry Current for High-Performing Circularly Polarized Light Detection. , 2022, 4, 401-409.		22
10	PVDF-HFP layer with high porosity and polarity for high-performance lithium metal anodes in both ether and carbonate electrolytes. Nano Energy, 2022, 95, 107009.	8.2	27
11	Robust Anionâ€Shielding Metalâ€Organic Frameworks Based Composite Interlayers To Achieve Uniform Li Deposition for Stable Liâ€Metal Anode. ChemElectroChem, 2022, 9, .	1.7	3
12	Exciton Binding Energies in Organic Photovoltaic Materials: A Theoretical Perspective. Journal of Physical Chemistry C, 2022, 126, 14-21.	1.5	16
13	Aryl-substituted-indanone end-capped nonfullerene acceptors for organic solar cells with a low nonradiative loss. Chemical Communications, 2022, 58, 4877-4880.	2.2	8
14	Trifluoro alkyl side chains in the non-fullerene acceptors to optimize the phase miscibility and vertical distribution of organic solar cells. Journal of Materials Chemistry A, 2022, 10, 8837-8845.	5.2	12
15	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
16	Alignment of Organic Conjugated Molecules for Highâ€Performance Device Applications. Macromolecular Rapid Communications, 2022, 43, e2100931.	2.0	8
17	Theoryâ€Guided Material Design Enabling Highâ€Performance Multifunctional Semitransparent Organic Photovoltaics without Optical Modulations. Advanced Materials, 2022, 34, e2200337.	11.1	42
18	Utilizing Ternary Strategy to Reduce the Influence of Polymer Batchâ€toâ€Batch Variation in Organic Solar Cells. Solar Rrl, 2022, 6, .	3.1	9

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19	The Role of Entropy Gains in the Exciton Separation in Organic Solar Cells. Macromolecular Rapid Communications, 2022, 43, e2100903.	2.0	4
20	Low-cost polymer acceptors with noncovalently fused-ring backbones for efficient all-polymer solar cells. Science China Chemistry, 2022, 65, 926-933.	4.2	22
21	Entangled structure morphology by polymer guest enabling mechanically robust organic solar cells with efficiencies of over 16.5%. Matter, 2022, 5, 1877-1889.	5.0	38
22	Simultaneously Decreasing the Bandgap and V_{oc} Loss in Efficient Ternary Organic Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	33
23	Asymmetric Substitution of Endâ€Groups Triggers 16.34% Efficiency for Allâ€Smallâ€Molecule Organic Solar Cells. Advanced Materials, 2022, 34, .	11.1	59
24	Regulating phase separation and molecular stacking by introducing siloxane to small-molecule donors enables high efficiency all-small-molecule organic solar cells. Energy and Environmental Science, 2022, 15, 2937-2947.	15.6	33
25	Binary Organic Solar Cells Breaking 19% via Manipulating the Vertical Component Distribution. Advanced Materials, 2022, 34, .	11.1	384
26	Small reorganization energy acceptors enable low energy losses in non-fullerene organic solar cells. Nature Communications, 2022, 13, .	5.8	113
27	Research progress of large-area organic solar cells. Scientia Sinica Chimica, 2022, 52, 2001-2026.	0.2	1
28	â€œNâ€Ï€â€Nâ€•Type Oligomeric Acceptor Achieves an OPV Efficiency of 18.19% with Low Energy Loss and Excellent Stability. Advanced Science, 2022, 9, .	5.6	67
29	Investigation of charge transfer between donor and acceptor for small-molecule organic solar cells by scanning tunneling microscopy and ultrafast transient absorption spectroscopy. Nano Research, 2022, 15, 8019-8027.	5.8	3
30	100 cm2 Organic Photovoltaic Cells with 23% Efficiency under Indoor Illumination. Chinese Journal of Polymer Science (English Edition), 2022, 40, 979-988.	2.0	18
31	Chiral Nonâ€Fullerene Acceptor Enriched Bulk Heterojunctions Enable Highâ€Performance Nearâ€Infrared Circularly Polarized Light Detection. Small, 2022, 18, .	5.2	12
32	Revealing aggregation of non-fullerene acceptors in intermixed phase by ultraviolet-visible absorption spectroscopy. Cell Reports Physical Science, 2022, 3, 100983.	2.8	6
33	Combining chlorination and sulfuration strategies for high-performance all-small-molecule organic solar cells. Journal of Energy Chemistry, 2021, 52, 228-233.	7.1	23
34	Constructing high efficiency non-fullerene all-small-molecule ternary organic solar cells by employing structurally similar acceptors. Materials Chemistry Frontiers, 2021, 5, 1405-1409.	3.2	13
35	Progress and prospects of thick-film organic solar cells. Journal of Materials Chemistry A, 2021, 9, 3125-3150.	5.2	53
36	Molecular dispersion enhances photovoltaic efficiency and thermal stability in quasi-bilayer organic solar cells. Science China Chemistry, 2021, 64, 116-126.	4.2	34

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37	Optimizing the energy levels and crystallinity of 2,2â€²-bithiophene-3,3â€²-dicarboximide-based polymer donors for high-performance non-fullerene organic solar cells. Journal of Materials Chemistry C, 2021, 9, 7575-7582.	2.7	9
38	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. Energy and Environmental Science, 2021, 14, 5903-5910.	15.6	116
39	Research Progress of Small Molecule Donors with High Crystallinity in All Small Molecule Organic Solar Cells. Acta Chimica Sinica, 2021, 79, 284.	0.5	11
40	Introducing methoxy or fluorine substitutions on the conjugated side chain to reduce the voltage loss of organic solar cells. Journal of Materials Chemistry C, 2021, 9, 11163-11171.	2.7	10
41	A universal method for constructing high efficiency organic solar cells with stacked structures. Energy and Environmental Science, 2021, 14, 2314-2321.	15.6	75
42	Top and bottom electrode optimization enabled high-performance flexible and semi-transparent organic solar cells. Materials Chemistry Frontiers, 2021, 5, 4310-4316.	3.2	7
43	Optimizing the Charge Carrier and Light Management of Nonfullerene Acceptors for Efficient Organic Solar Cells with Small Nonradiative Energy Losses. Solar Rrl, 2021, 5, 2100008.	3.1	20
44	Molecular design revitalizes the low-cost PTV-polymer for highly efficient organic solar cells. National Science Review, 2021, 8, nwab031.	4.6	70
45	Enhancing the performances of all-small-molecule ternary organic solar cells via achieving optimized morphology and 3D charge pathways. Chinese Chemical Letters, 2021, 32, 2904-2908.	4.8	10
46	Enhancing Photovoltaic Performances of Naphthaleneâ€Based Unfusedâ€Ring Electron Acceptors upon Regioisomerization. Solar Rrl, 2021, 5, 2100094.	3.1	21
47	A New Conjugated Polymer that Enables the Integration of Photovoltaic and Lightâ€Emitting Functions in One Device. Advanced Materials, 2021, 33, e2101090.	11.1	129
48	An Efficiency of 16.46% and a T₈₀ Lifetime of Over 4000 h for the PM6:Y6 Inverted Organic Solar Cells Enabled by Surface Acid Treatment of the Zinc Oxide Electron Transporting Layer. ACS Applied Materials & Interfaces, 2021, 13, 17869-17881.	4.0	80
49	Ï€-Extended Nonfullerene Acceptors for Efficient Organic Solar Cells with a High Open-Circuit Voltage of 0.94 V and a Low Energy Loss of 0.49 eV. ACS Applied Materials & Interfaces, 2021, 13, 22531-22539.	4.0	22
50	Probing molecular orientation at bulk heterojunctions by polarization-selective transient absorption spectroscopy. Science China Chemistry, 2021, 64, 1569-1576.	4.2	2
51	Creating Side Transport Pathways in Organic Solar Cells by Introducing Delayed Fluorescence Molecules. Chemistry of Materials, 2021, 33, 4578-4585.	3.2	11
52	Small Exciton Binding Energies Enabling Direct Charge Photogeneration Towards Lowâ€Drivingâ€Force Organic Solar Cells. Angewandte Chemie, 2021, 133, 15476-15481.	1.6	22
53	The substituents on the intermediate electron-deficient groups in small molecular acceptors result appropriate morphologies for organic solar cells. Organic Electronics, 2021, 93, 106133.	1.4	8
54	In Situ Generated Mixed Ion/Electron-Conducting Scaffold with Uniform Li Deposition for Flexible Li Metal Anodes. ACS Applied Energy Materials, 2021, 4, 6106-6115.	2.5	11

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55	Small Exciton Binding Energies Enabling Direct Charge Photogeneration Towards Lowâ€Drivingâ€Force Organic Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 15348-15353.	7.2	121
56	Conjugated microporous polymers for energy storage: Recent progress and challenges. Nano Energy, 2021, 85, 105958.	8.2	110
57	Regioregular narrow bandgap copolymer with strong aggregation ability for high-performance semitransparent photovoltaics. Nano Energy, 2021, 86, 106098.	8.2	31
58	Singleâ€Junction Organic Photovoltaic Cell with 19% Efficiency. Advanced Materials, 2021, 33, e2102420.	11.1	1,072
59	Volatilizable Solid Additiveâ€Assisted Treatment Enables Organic Solar Cells with Efficiency over 18.8% and Fill Factor Exceeding 80%. Advanced Materials, 2021, 33, e2105301.	11.1	222
60	Selfâ€Powered Organic Photodetectors with High Detectivity for Near Infrared Light Detection Enabled by Dark Current Reduction. Advanced Functional Materials, 2021, 31, 2106326.	7.8	70
61	18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. Nano Today, 2021, 41, 101289.	6.2	47
62	Dual-regulation of ions/electrons in a 3D Cuâ€“Cu_xO host to guide uniform lithium growth for high-performance lithium metal anodes. Journal of Materials Chemistry A, 2021, 9, 10393-10403.	5.2	20
63	Mixed Solvent as a Critical Factor in Optimizing Phase Separation of All Small Molecule Organic Solar Cells. ACS Applied Energy Materials, 2021, 4, 11769-11776.	2.5	2
64	Sulfur Compensation: A Promising Strategy against Capacity Decay in Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2021, 13, 58771-58780.	4.0	9
65	Regulating the phase separation of ternary organic solar cells via 3D architectured AIE molecules. Nano Energy, 2020, 68, 104271.	8.2	47
66	Orientationally engineered 2D/3D perovskite for high efficiency solar cells. Sustainable Energy and Fuels, 2020, 4, 324-330.	2.5	35
67	Control of Nanomorphology in Fullerene-Free Organic Solar Cells by Lewis Acid Doping with Enhanced Photovoltaic Efficiency. ACS Applied Materials & Interfaces, 2020, 12, 667-677.	4.0	24
68	Scalable Production of Wearable Solidâ€State Liâ€Ion Capacitors from Nâ€Doped Hierarchical Carbon. Advanced Materials, 2020, 32, e2005531.	11.1	57
69	Long-term stable and highly efficient perovskite solar cells with a formamidinium chloride (FACl) additive. Journal of Materials Chemistry A, 2020, 8, 17756-17764.	5.2	38
70	Effective Modulation of Exciton Binding Energies in Polymorphs of a Small-Molecule Acceptor for Organic Photovoltaics. Journal of Physical Chemistry Letters, 2020, 11, 10227-10232.	2.1	25
71	The Crystallinity Control of Polymer Donor Materials for High-Performance Organic Solar Cells. Frontiers in Chemistry, 2020, 8, 603134.	1.8	16
72	Enhancing the photovoltaic performance of heteroheptacene-based nonfullerene acceptors through the synergistic effect of side-chain engineering and fluorination. Journal of Materials Chemistry A, 2020, 8, 24543-24552.	5.2	19

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73	Flexible Short-Wave Infrared Image Sensors Enabled by High-Performance Polymeric Photodetectors. Macromolecules, 2020, 53, 10636-10643.	2.2	42
74	Moving Alkylâ€Chain Branching Point Induced a Hierarchical Morphology for Efficient Allâ€Smallâ€Molecule Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2005426.	7.8	54
75	The post-treatment effects on open circuit voltages and device performances in a high efficiency all-small-molecule organic solar cell. Journal of Materials Chemistry C, 2020, 8, 15385-15392.	2.7	18
76	Simultaneous Performance and Stability Improvement of Ternary Polymer Solar Cells Enabled by Modulating the Molecular Packing of Acceptors. Solar Rrl, 2020, 4, 2000374.	3.1	15
77	Synergistic Optimization Enables Largeâ€Area Flexible Organic Solar Cells to Maintain over 98% PCE of the Smallâ€Area Rigid Devices. Advanced Materials, 2020, 32, e2005153.	11.1	89
78	Modulation of Donor Alkyl Terminal Chains with the Shifting Branching Point Leads to the Optimized Morphology and Efficient All-Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 25100-25107.	4.0	40
79	Ideal alloys of two donor isomers with non-covalently conformational locking for ternary organic solar cells. Journal of Materials Chemistry C, 2020, 8, 7519-7526.	2.7	11
80	Semitransparent Flexible Organic Solar Cells. Chemical Research in Chinese Universities, 2020, 36, 343-350.	1.3	18
81	Surface controlled pseudo-capacitive reactions enabling ultra-fast charging and long-life organic lithium ion batteries. Sustainable Energy and Fuels, 2020, 4, 4179-4185.	2.5	30
82	Red-emissive poly(phenylene vinylene)-derivated semiconductors with well-balanced ambipolar electrical transporting properties. Journal of Materials Chemistry C, 2020, 8, 10868-10879.	2.7	18
83	A High Energy Density Self-supported and Bendable Organic Electrode for Redox Supercapacitors with a Wide Voltage Window. Chinese Journal of Polymer Science (English Edition), 2020, 38, 522-530.	2.0	12
84	Ternary Organic Solar Cells Based on Two Nonâ€fullerene Acceptors with Complimentary Absorption and Balanced Crystallinity. Chinese Journal of Chemistry, 2020, 38, 935-940.	2.6	21
85	Singleâ€Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. Advanced Materials, 2020, 32, e1908205.	11.1	1,407
86	Advanced functional polymer materials. Materials Chemistry Frontiers, 2020, 4, 1803-1915.	3.2	117
87	The interfacial degradation mechanism of polymer:fullerene bis-adduct solar cells and their stability improvement. Materials Advances, 2020, 1, 1307-1317.	2.6	9
88	Influence of Covalent and Noncovalent Backbone Rigidification Strategies on the Aggregation Structures of a Wide-Band-Gap Polymer for Photovoltaic Cells. Chemistry of Materials, 2020, 32, 1993-2003.	3.2	36
89	Nitrogenâ€doped nanoarrayâ€modified 3D hierarchical graphene as a cofunction host for highâ€performance flexible Liâ€S battery. EcoMat, 2020, 2, e12010.	6.8	50
90	Highâ€Efficient Charge Generation in Singleâ€Donorâ€Componentâ€Based pâ€iâ€n Structure Organic Solar Cells. Solar Rrl, 2020, 4, 1900580.	3.1	14

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91	Efficient Two-Dimensional Tin Halide Perovskite Light-Emitting Diodes via a Spacer Cation Substitution Strategy. Journal of Physical Chemistry Letters, 2020, 11, 1120-1127.	2.1	97
92	Effect of Side-Chain Variation on Single-Crystalline Structures for Revealing the Structureâ€“Property Relationships of Organic Solar Cells. Organic Materials, 2020, 02, 026-032.	1.0	1
93	A privileged ternary blend enabling non-fullerene organic photovoltaics with over 14% efficiency. Journal of Materials Chemistry C, 2020, 8, 15135-15141.	2.7	4
94	Achieving Small Exciton Binding Energies in Small Molecule Acceptors for Organic Solar Cells: Effect of Molecular Packing. Journal of Physical Chemistry Letters, 2019, 10, 4888-4894.	2.1	60
95	Molecular Engineering of Dâ^Ï€â€“A Copolymers Based on 4,8-Bis(4-chlorothiophen-2-yl)benzo[1,2-b:4,5-bâ€²]dithiophene (BDT-T-Cl) for High-Performance Fullerene-Free Organic Solar Cells. Macromolecules, 2019, 52, 6227-6233.	2.2	83
96	Effects of energy-level offset between a donor and acceptor on the photovoltaic performance of non-fullerene organic solar cells. Journal of Materials Chemistry A, 2019, 7, 18889-18897.	5.2	87
97	A Bifunctional and Freeâ€Standing Organic Composite Film with High Flexibility and Good Tensile Strength for Tribological and Electrochemical Applications. Advanced Materials Technologies, 2019, 4, 1900617.	3.0	21
98	Facile-Effective Hole-Transporting Materials Based on Dibenzo[a,c]carbazole: The Key Role of Linkage Position to Photovoltaic Performance of Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 2514-2521.	8.8	59
99	Exquisite modulation of ZnO nanoparticle electron transporting layer for high-performance fullerene-free organic solar cell with inverted structure. Journal of Materials Chemistry A, 2019, 7, 3570-3576.	5.2	58
100	Reduced graphene oxide-induced crystallization of CuPc interfacial layer for high performance of perovskite photodetectors. RSC Advances, 2019, 9, 3800-3808.	1.7	14
101	A-Ï€-D-Ï€-A small-molecule donors with different end alkyl chains obtain different morphologies in organic solar cells. Chinese Chemical Letters, 2019, 30, 906-910.	4.8	8
102	Spontaneous open-circuit voltage gain of fully fabricated organic solar cells caused by elimination of interfacial energy disorder. Energy and Environmental Science, 2019, 12, 2518-2528.	15.6	57
103	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. Nature Communications, 2019, 10, 2515.	5.8	1,431
104	Nanowire Array-Coated Flexible Substrate to Accommodate Lithium Plating for Stable Lithium-Metal Anodes and Flexible Lithiumâ€“Organic Batteries. ACS Applied Materials & Interfaces, 2019, 11, 20873-20880.	4.0	23
105	Cableâ€Shaped Lithiumâ€“Sulfur Batteries Based on Nitrogenâ€Doped Carbon/Carbon Nanotube Composite Yarns. Macromolecular Materials and Engineering, 2019, 304, 1900201.	1.7	5
106	Benzotriazole-Based Acceptor and Donors, Coupled with Chlorination, Achieve a High V_{OC} of 1.24 V and an Efficiency of 10.5% in Fullerene-Free Organic Solar Cells. Chemistry of Materials, 2019, 31, 3941-3947.	3.2	236
107	Significant influence of halogenation on the energy levels and molecular configurations of polymers in DTBDT-based polymer solar cells. Materials Chemistry Frontiers, 2019, 3, 1244-1252.	3.2	15
108	Constructing Highâ€Performance Allâ€Smallâ€Molecule Ternary Solar Cells with the Same Third Component but Different Mechanisms for Fullerene and Nonâ€fullerene Systems. Advanced Energy Materials, 2019, 9, 1900190.	10.2	37

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109	Efficient Polymer Solar Cells With High Fill Factor Enabled by A Furo[3,4â€c]pyrroleâ€4,6â€dioneâ€Based Copolymer. Solar Rrl, 2019, 3, 1900012.	3.1	17
110	Highly efficient flexible MAPbI₃ solar cells with a fullerene derivative-modified SnO₂ layer as the electron transport layer. Journal of Materials Chemistry A, 2019, 7, 6659-6664.	5.2	77
111	Chalcogen-substitution modulated supramolecular chirality and gas sensing properties in perylenediimides. Chemical Communications, 2019, 55, 4379-4382.	2.2	20
112	Regulating Bulkâ€Heterojunction Molecular Orientations through Surface Free Energy Control of Holeâ€Transporting Layers for Highâ€Performance Organic Solar Cells. Advanced Materials, 2019, 31, e1806921.	11.1	86
113	Surface modification of ZnO electron transport layers with glycine for efficient inverted non-fullerene polymer solar cells. Organic Electronics, 2019, 70, 25-31.	1.4	41
114	Fluorination-substitution effect on all-small-molecule organic solar cells. Science China Chemistry, 2019, 62, 837-844.	4.2	32
115	Management of the crystallization in two-dimensional perovskite solar cells with enhanced efficiency within a wide temperature range and high stability. Nano Energy, 2019, 58, 706-714.	8.2	52
116	Correlations between Performance of Organic Solar Cells and Filmâ€Depthâ€Dependent Optical and Electronic Variations. Advanced Optical Materials, 2019, 7, 1900152.	3.6	43
117	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. Advanced Materials, 2019, 31, e1808356.	11.1	388
118	Recent Progress in Polymeric Carbonylâ€Based Electrode Materials for Lithium and Sodium Ion Batteries. Macromolecular Rapid Communications, 2019, 40, e1800565.	2.0	88
119	Simultaneous performance and stability improvement of polymer:fullerene solar cells by doping with piperazine. Journal of Materials Chemistry A, 2019, 7, 7099-7108.	5.2	20
120	All-small-molecule organic solar cells with over 14% efficiency by optimizing hierarchical morphologies. Nature Communications, 2019, 10, 5393.	5.8	273
121	A Sequential Slotâ€Die Coated Ternary System Enables Efficient Flexible Organic Solar Cells. Solar Rrl, 2019, 3, 1800333.	3.1	37
122	Ambipolar Conjugated Polymers with Ultrahigh Balanced Hole and Electron Mobility for Printed Organic Complementary Logic via a Twoâ€Step Cï£¿H Activation Strategy. Advanced Materials, 2019, 31, e1806010.	11.1	63
123	Largeâ€Area Organic Solar Cells: Material Requirements, Modular Designs, and Printing Methods. Advanced Materials, 2019, 31, e1805089.	11.1	246
124	Liquidâ€Crystalline Small Molecules for Nonfullerene Solar Cells with High Fill Factors and Power Conversion Efficiencies. Advanced Energy Materials, 2019, 9, 1803175.	10.2	55
125	A low cost and high performance polymer donor material for polymer solar cells. Nature Communications, 2018, 9, 743.	5.8	635
126	Two-dimensional benzo[1,2-b:4,5-bâ€²]difuran-based wide bandgap conjugated polymers for efficient fullerene-free polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 4023-4031.	5.2	37

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127	Improve the Performance of the Allâ€Smallâ€Molecule Nonfullerene Organic Solar Cells through Enhancing the Crystallinity of Acceptors. Advanced Energy Materials, 2018, 8, 1702377.	10.2	87
128	From Alloy-Like to Cascade Blended Structure: Designing High-Performance All-Small-Molecule Ternary Solar Cells. Journal of the American Chemical Society, 2018, 140, 1549-1556.	6.6	145
129	A Simple but Efficient Small Molecule with a High Open Circuit Voltage of 1.07â€...V in Solutionâ€Processable Organic Solar Cells. Asian Journal of Organic Chemistry, 2018, 7, 558-562.	1.3	3
130	Nitrogen-Doped Porous Carbons Derived from Polypyrrole-Based Aerogels for Gas Uptake and Supercapacitors. ACS Applied Nano Materials, 2018, 1, 609-616.	2.4	46
131	Reconstructing Space- and Energy-Dependent Exciton Generation in Solution-Processed Inverted Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 13741-13747.	4.0	12
132	Wide-Bandgap Conjugated Polymers Based on Alkylthiofuran-Substituted Benzo[1,2-b:4,5-bâ€²]difuran for Efficient Fullerene-Free Polymer Solar Cells. Macromolecules, 2018, 51, 2498-2505.	2.2	23
133	Critical Role of Vertical Phase Separation in Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 12913-12920.	4.0	21
134	A hierarchical porous N-doped carbon electrode with superior rate performance and cycling stability for flexible supercapacitors. Materials Chemistry Frontiers, 2018, 2, 986-992.	3.2	30
135	Modulating Molecular Orientation Enables Efficient Nonfullerene Small-Molecule Organic Solar Cells. Chemistry of Materials, 2018, 30, 2129-2134.	3.2	157
136	A Carbonyl Compoundâ€Based Flexible Cathode with Superior Rate Performance and Cyclic Stability for Flexible Lithiumâ€Ion Batteries. Advanced Materials, 2018, 30, 1703868.	11.1	128
137	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
138	Simultaneously Achieved High Openâ€Circuit Voltage and Efficient Charge Generation by Fineâ€Tuning Chargeâ€Transfer Driving Force in Nonfullerene Polymer Solar Cells. Advanced Functional Materials, 2018, 28, 1704507.	7.8	180
139	A novel small molecule based on naphtho[1,2-b:5,6-bâ€²]dithiophene benefits both fullerene and non-fullerene solar cells. Materials Chemistry Frontiers, 2018, 2, 143-148.	3.2	14
140	Selfâ€Assembled 3D Helical Hollow Superstructures with Enhanced Microwave Absorption Properties. Macromolecular Rapid Communications, 2018, 39, 1700591.	2.0	34
141	Conducting Polymer Nanostructures and their Derivatives for Flexible Supercapacitors. Israel Journal of Chemistry, 2018, 58, 1299-1314.	1.0	40
142	A carbon foam-supported high sulfur loading composite as a self-supported cathode for flexible lithiumâ€“sulfur batteries. Nanoscale, 2018, 10, 21790-21797.	2.8	21
143	Fluorination Induced Donor to Acceptor Transformation in A1â€“Dâ€“A2â€“Dâ€“A1-Type Photovoltaic Small Molecules. Frontiers in Chemistry, 2018, 6, 384.	1.8	4
144	Suppressing charge recombination in small-molecule ternary organic solar cells by modulating donorâ€“acceptor interfacial arrangements. Physical Chemistry Chemical Physics, 2018, 20, 24570-24576.	1.3	13

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145	Macroscopic helical chirality and self-motion of hierarchical self-assemblies induced by enantiomeric small molecules. Nature Communications, 2018, 9, 3808.	5.8	34
146	A Fused Ring Electron Acceptor with Decacyclic Core Enables over 13.5% Efficiency for Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1802050.	10.2	97
147	Exciton Binding Energies of Nonfullerene Small Molecule Acceptors: Implication for Exciton Dissociation Driving Forces in Organic Solar Cells. Journal of Physical Chemistry C, 2018, 122, 22309-22316.	1.5	93
148	Fluorination vs. chlorination: a case study on high performance organic photovoltaic materials. Science China Chemistry, 2018, 61, 1328-1337.	4.2	177
149	Flexible VO_x Nanosphere@SWCNT Hybrid Films with Dualâ€Confinement Function of Polysulfides for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials Interfaces, 2018, 5, 1800766.	1.9	14
150	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
151	The Introduction of Fluorine and Sulfur Atoms into Benzotriazoleâ€Based pâ€Type Polymers to Match with a Benzotriazoleâ€Containing nâ€Type Small Molecule: â€œThe Sameâ€Acceptorâ€Strategyâ€• to Realize High Openâ€Circuit Voltage. Advanced Energy Materials, 2018, 8, 1801582.	10.2	122
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