

# Jinaqi Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

219 papers	13,648 citations	53 h-index	113 g-index
240 ext. papers	16,992 ext. citations	11.9 avg, IF	6.87 L-index

#	Paper	IF	Citations
219	Conjugated Mesopolymer Achieving 15% Efficiency Single-Junction Organic Solar Cells.. <i>Advanced Science</i> , <b>2022</b> , e2105430	13.6	5
218	Building Supramolecular Chirality in Bulk Heterojunctions Enables Amplified Dissymmetry Current For High-Performing Circularly Polarized Light Detection <b>2022</b> , 4, 401-409		5
217	High fill factor organic solar cells with increased dielectric constant and molecular packing density. <i>Joule</i> , <b>2022</b> ,	27.8	16
216	Alignment of organic conjugated molecules for high-performance device applications.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2100931	4.8	0
215	Pushing the Efficiency of High Open-Circuit Voltage Binary Organic Solar Cells by Vertical Morphology Tuning.. <i>Advanced Science</i> , <b>2022</b> , e2200578	13.6	9
214	Terminal alkyl chain tuning of small molecule donor enables optimized morphology and efficient all-small-molecule organic solar cells. <i>Dyes and Pigments</i> , <b>2022</b> , 200, 110147	4.6	1
213	Rational tuning of intermolecular and intramolecular interactions enabling high-efficiency indoor organic photovoltaics. <i>Nano Energy</i> , <b>2022</b> , 99, 107414	17.1	1
212	Optimized Charge Transport Channel Enables Thick-Film All-Small-Molecule Organic Solar Cells. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 19756-19764	4.1	
211	High Miscibility Compatible with Ordered Molecular Packing Enables an Excellent Efficiency of 16.2% in All-small-molecule Organic Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , e2106316	24	15
210	A Universal Nonhalogenated Polymer Donor for High-Performance Organic Photovoltaic Cells. <i>Advanced Materials</i> , <b>2021</b> , e2105803	24	17
209	Mixed Solvent as a Critical Factor in Optimizing Phase Separation of All Small Molecule Organic Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 11769-11776	6.1	1
208	Enhancing the performances of all-small-molecule ternary organic solar cells via achieving optimized morphology and 3D charge pathways. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 2904-2904	8.1	2
207	Simultaneously Enhancing the Jsc and Voc of Ternary Organic Solar Cells by Incorporating a Medium-Band-Gap Acceptor. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 3480-3486	6.1	7
206	A New Conjugated Polymer that Enables the Integration of Photovoltaic and Light-Emitting Functions in One Device. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101090	24	58
205	An Efficiency of 16.46% and a 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. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 17869-17881	9.5	26
204	Achieving a Higher Energy Charge-Transfer State and Reduced Voltage Loss for Organic Solar Cells using Nonfullerene Acceptors with Norbornenyl-Functionalized Terminal Groups. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 24765-24773	9.5	1
203	Efficient Charge Transport Enables High Efficiency in Dilute Donor Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5039-5044	6.4	14

202	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. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 22531-22539	9.5	6
201	Modulation of terminal alkyl chain length enables over 15% efficiency in small-molecule organic solar cells. <i>Science China Chemistry</i> , <b>2021</b> , 64, 1200-1207	7.9	7
200	Probing molecular orientation at bulk heterojunctions by polarization-selective transient absorption spectroscopy. <i>Science China Chemistry</i> , <b>2021</b> , 64, 1569-1576	7.9	0
199	High-Efficiency Organic Solar Cells Based on Asymmetric Acceptors Bearing One 3D Shape-Persistent Terminal Group. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103445	15.6	13
198	Creating Side Transport Pathways in Organic Solar Cells by Introducing Delayed Fluorescence Molecules. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4578-4585	9.6	4
197	Small Exciton Binding Energies Enabling Direct Charge Photogeneration Towards Low-Driving-Force Organic Solar Cells. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 15476-15481	3.6	4
196	The substituents on the intermediate electron-deficient groups in small molecular acceptors result appropriate morphologies for organic solar cells. <i>Organic Electronics</i> , <b>2021</b> , 93, 106133	3.5	2
195	Small Exciton Binding Energies Enabling Direct Charge Photogeneration Towards Low-Driving-Force Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15348-15353	16.4	32
194	Small-molecule acceptors with long alkyl chains for high-performance as-cast nonfullerene organic solar cells. <i>Organic Electronics</i> , <b>2021</b> , 93, 106167	3.5	3
193	Miscibility Control by Tuning Electrostatic Interactions in Bulk Heterojunction for Efficient Organic Solar Cells <b>2021</b> , 3, 1276-1283		8
192	Combining chlorination and sulfuration strategies for high-performance all-small-molecule organic solar cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 52, 228-233	12	11
191	Optimizing polymer aggregation and blend morphology for boosting the photovoltaic performance of polymer solar cells via a random terpolymerization strategy. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 59, 30-37	12	10
190	Constructing high efficiency non-fullerene all-small-molecule ternary organic solar cells by employing structurally similar acceptors. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 1405-1409	7.8	5
189	Molecular dispersion enhances photovoltaic efficiency and thermal stability in quasi-bilayer organic solar cells. <i>Science China Chemistry</i> , <b>2021</b> , 64, 116-126	7.9	17
188	Optimizing the energy levels and crystallinity of 2,2'-bithiophene-3,3'-dicarboximide-based polymer donors for high-performance non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 7575-7582	7.1	4
187	Achieving 10% efficiency in non-fullerene all-small-molecule organic solar cells without extra treatments. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10427-10436	13	6
186	Electron-deficient diketone unit engineering for non-fused ring acceptors enabling over 13% efficiency in organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14948-14957	13	11
185	Optimizing the Charge Carrier and Light Management of Nonfullerene Acceptors for Efficient Organic Solar Cells with Small Nonradiative Energy Losses. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100008	7.1	6

184	Molecular design revitalizes the low-cost PTV-polymer for highly efficient organic solar cells.. <i>National Science Review</i> , <b>2021</b> , 8, nwab031	10.8	35
183	Hydrophilicity gradient in covalent organic frameworks for membrane distillation. <i>Nature Materials</i> , <b>2021</b> , 20, 1551-1558	27	40
182	Regioregular narrow bandgap copolymer with strong aggregation ability for high-performance semitransparent photovoltaics. <i>Nano Energy</i> , <b>2021</b> , 86, 106098	17.1	9
181	Completely non-fused electron acceptor with 3D-interpenetrated crystalline structure enables efficient and stable organic solar cell. <i>Nature Communications</i> , <b>2021</b> , 12, 5093	17.4	48
180	Single-Junction Organic Photovoltaic Cell with 19% Efficiency. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102420	24	302
179	Volatilizable Solid Additive-Assisted Treatment Enables Organic Solar Cells with Efficiency over 18.8% and Fill Factor Exceeding 80. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105301	24	63
178	Nanoscale heterogeneous distribution of surface energy at interlayers in organic bulk-heterojunction solar cells. <i>Joule</i> , <b>2021</b> ,	27.8	5
177	Influence of the terminal group on optoelectronic properties of fused-ring nonfullerene acceptors with ethylhexyl side chain. <i>Dyes and Pigments</i> , <b>2021</b> , 194, 109635	4.6	1
176	18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. <i>Nano Today</i> , <b>2021</b> , 41, 101289	17.9	13
175	Synergistic Optimization Enables Large-Area Flexible Organic Solar Cells to Maintain over 98% PCE of the Small-Area Rigid Devices. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005153	24	38
174	Ultrasonics Sonochemistry Assisted Preparation of Polysiloxane Main-Chain Liquid-Crystalline Elastomers. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 2000071	2.6	2
173	Modulation of Donor Alkyl Terminal Chains with the Shifting Branching Point Leads to the Optimized Morphology and Efficient All-Small-Molecule Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 25100-25107	9.5	24
172	Ideal alloys of two donor isomers with non-covalently conformational locking for ternary organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 7519-7526	7.1	8
171	Semitransparent Flexible Organic Solar Cells. <i>Chemical Research in Chinese Universities</i> , <b>2020</b> , 36, 343-350.	2.2	10
170	Surface controlled pseudo-capacitive reactions enabling ultra-fast charging and long-life organic lithium ion batteries. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4179-4185	5.8	12
169	Red-emissive poly(phenylene vinylene)-derivated semiconductors with well-balanced ambipolar electrical transporting properties. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 10868-10879	7.1	14
168	On the understanding of energy loss and device fill factor trade-offs in non-fullerene organic solar cells with varied energy levels. <i>Nano Energy</i> , <b>2020</b> , 75, 105032	17.1	14
167	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , <b>2020</b> , 63, 1142-1150	7.1	99

166	Ternary Organic Solar Cells Based on Two Non-fullerene Acceptors with Complimentary Absorption and Balanced Crystallinity. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 935-940	4.9	14
165	Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908205	24	896
164	Enhanced photovoltaic effect from naphtho[2,3-c]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14706-14712	13	7
163	The interfacial degradation mechanism of polymer:fullerene bis-adduct solar cells and their stability improvement. <i>Materials Advances</i> , <b>2020</b> , 1, 1307-1317	3.3	7
162	Influence of Covalent and Noncovalent Backbone Rigidification Strategies on the Aggregation Structures of a Wide-Band-Gap Polymer for Photovoltaic Cells. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1993-2003	8.6	21
161	Non-Preheating Processed Quasi-2D Perovskites for Efficient and Stable Solar Cells. <i>Small</i> , <b>2020</b> , 16, e1906997	11	13
160	Efficient Organic Solar Cells Based on Non-Fullerene Acceptors with Two Planar Thiophene-Fused Perylene Diimide Units. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10746-10754	9.5	12
159	High-Efficient Charge Generation in Single-Donor-Component-Based p-i-n Structure Organic Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900580	7.1	11
158	Efficient Two-Dimensional Tin Halide Perovskite Light-Emitting Diodes via a Spacer Cation Substitution Strategy. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1120-1127	6.4	58
157	Effect of Side-Chain Variation on Single-Crystalline Structures for Revealing the Structure-Property Relationships of Organic Solar Cells. <i>Organic Materials</i> , <b>2020</b> , 02, 026-032	1.9	1
156	A privileged ternary blend enabling non-fullerene organic photovoltaics with over 14% efficiency. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15135-15141	7.1	2
155	Regulating the phase separation of ternary organic solar cells via 3D architected AIE molecules. <i>Nano Energy</i> , <b>2020</b> , 68, 104271	17.1	29
154	Orientationally engineered 2D/3D perovskite for high efficiency solar cells. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 324-330	5.8	25
153	The effect of aggregation behavior on photovoltaic performances in benzodithiophene-thiazolothiazole-based wide band-gap conjugated polymers with side chain position changes. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 1629-1636	4.9	22
152	Study of photovoltaic performances for asymmetrical and symmetrical chlorinated thiophene-bridge-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2301-2306	7.1	9
151	Control of Nanomorphology in Fullerene-Free Organic Solar Cells by Lewis Acid Doping with Enhanced Photovoltaic Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 667-677	9.5	13
150	Controlled Production of MoS <sub>2</sub> Full-Scale Nanosheets and Their Strong Size Effects. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2001130	4.6	11
149	Long-term stable and highly efficient perovskite solar cells with a formamidinium chloride (FACl) additive. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17756-17764	13	19

- 148 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 13 12
- 147 Water-Assisted Crystal Growth in Quasi-2D Perovskites with Enhanced Charge Transport and Photovoltaic Performance. *Advanced Energy Materials*, **2020**, 10, 2001832 21.8 29
- 146 Multiple conformation locks gift polymer donor high efficiency. *Nano Energy*, **2020**, 77, 105161 17.1 27
- 145 Efficient As-Cast Polymer Solar Cells with High and Stabilized Fill Factor. *Solar Rrl*, **2020**, 4, 2000275 7.1 6
- 144 Moving Alkyl-Chain Branching Point Induced a Hierarchical Morphology for Efficient All-Small-Molecule Organic Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2005426 15.6 30
- 143 Improved photovoltaic properties of PM6-based terpolymer donors containing benzothiadiazole with a siloxane-terminated side chain. *Polymer Chemistry*, **2020**, 11, 6178-6186 4.9 6
- 142 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 7.1 9
- 141 Simultaneous Performance and Stability Improvement of Ternary Polymer Solar Cells Enabled by Modulating the Molecular Packing of Acceptors. *Solar Rrl*, **2020**, 4, 2000374 7.1 12
- 140 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 20.1 145
- 139 Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. *Science China Chemistry*, **2019**, 62, 370-377 7.9 24
- 138 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 13.76 38
- 137 Reduced graphene oxide-induced crystallization of CuPc interfacial layer for high performance of perovskite photodetectors.. *RSC Advances*, **2019**, 9, 3800-3808 3.7 11
- 136 A-ED-EA small-molecule donors with different end alkyl chains obtain different morphologies in organic solar cells. *Chinese Chemical Letters*, **2019**, 30, 906-910 8.1 6
- 135 Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. *Nature Communications*, **2019**, 10, 2515 17.4 1093
- 134 Robust production of 2D quantum sheets from bulk layered materials. *Materials Horizons*, **2019**, 6, 1416-1424 14.4 16
- 133 Benzotriazole-Based Acceptor and Donors, Coupled with Chlorination, Achieve a High VOC of 1.24 V and an Efficiency of 10.5% in Fullerene-Free Organic Solar Cells. *Chemistry of Materials*, **2019**, 31, 3941-3947 9.6 175
- 132 Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. *Chemistry of Materials*, **2019**, 31, 3636-3643 9.6 17
- 131 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 7.8 13



130	Constructing High-Performance All-Small-Molecule Ternary Solar Cells with the Same Third Component but Different Mechanisms for Fullerene and Non-Fullerene Systems. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900190	21.8	30
129	Highly efficient flexible MAPbI <sub>3</sub> solar cells with a fullerene derivative-modified SnO <sub>2</sub> layer as the electron transport layer. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6659-6664	13	56
128	Regulating Bulk-Heterojunction Molecular Orientations through Surface Free Energy Control of Hole-Transporting Layers for High-Performance Organic Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806921	24	53
127	Tuning the dipole moments of nonfullerene acceptors with an asymmetric terminal strategy for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8889-8896	13	53
126	Surface modification of ZnO electron transport layers with glycine for efficient inverted non-fullerene polymer solar cells. <i>Organic Electronics</i> , <b>2019</b> , 70, 25-31	3.5	23
125	Fluorination-substitution effect on all-small-molecule organic solar cells. <i>Science China Chemistry</i> , <b>2019</b> , 62, 837-844	7.9	26
124	Management of the crystallization in two-dimensional perovskite solar cells with enhanced efficiency within a wide temperature range and high stability. <i>Nano Energy</i> , <b>2019</b> , 58, 706-714	17.1	38
123	Molecular Engineering of D $\pi$ A Copolymers Based on 4,8-Bis(4-chlorothiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene (BDT-T-Cl) for High-Performance Fullerene-Free Organic Solar Cells. <i>Macromolecules</i> , <b>2019</b> , 52, 6227-6233	5.5	61
122	Effects of energy-level offset between a donor and acceptor on the photovoltaic performance of non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18889-18897	13	57
121	Fine Multi-Phase Alignments in 2D Perovskite Solar Cells with Efficiency over 17% via Slow Post-Annealing. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903889	24	106
120	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808356	24	314
119	Simultaneous performance and stability improvement of polymer:fullerene solar cells by doping with piperazine. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7099-7108	13	16
118	Fusion or non-fusion of quasi-two-dimensional fused perylene diimide acceptors: the importance of molecular geometry for fullerene-free organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27493-27502	13	14
117	All-small-molecule organic solar cells with over 14% efficiency by optimizing hierarchical morphologies. <i>Nature Communications</i> , <b>2019</b> , 10, 5393	17.4	185
116	A Sequential Slot-Die Coated Ternary System Enables Efficient Flexible Organic Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800333	7.1	32
115	Ambipolar Conjugated Polymers with Ultrahigh Balanced Hole and Electron Mobility for Printed Organic Complementary Logic via a Two-Step C $\pi$ H Activation Strategy. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806010	24	43
114	Large-Area Organic Solar Cells: Material Requirements, Modular Designs, and Printing Methods. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805089	24	152
113	Liquid-Crystalline Small Molecules for Nonfullerene Solar Cells with High Fill Factors and Power Conversion Efficiencies. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803175	21.8	49

112	A low cost and high performance polymer donor material for polymer solar cells. <i>Nature Communications</i> , <b>2018</b> , 9, 743	17.4	459
111	Facile Synthesis of the O-Functionalized Ladder-Type Dipyran Building Block and Its Application in Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13931-13940	9.5	7
110	Naphtho[1,2-b:5,6-b']dithiophene-Based Conjugated Polymers for Fullerene-Free Inverted Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1700872	4.8	9
109	Reducing the actuation threshold by incorporating a nonliquid crystal chain into a liquid crystal elastomer.. <i>RSC Advances</i> , <b>2018</b> , 8, 4857-4866	3.7	3
108	Two-dimensional benzo[1,2-b:4,5-b']difuran-based wide bandgap conjugated polymers for efficient fullerene-free polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4023-4031	13	30
107	High efficiency small molecular acceptors based on novel O-functionalized ladder-type dipyran building block. <i>Nano Energy</i> , <b>2018</b> , 45, 10-20	17.1	39
106	Small bandgap porphyrin-based polymer acceptors for non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 717-721	7.1	19
105	Improve the Performance of the All-Small-Molecule Nonfullerene Organic Solar Cells through Enhancing the Crystallinity of Acceptors. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702377	21.8	75
104	From Alloy-Like to Cascade Blended Structure: Designing High-Performance All-Small-Molecule Ternary Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 1549-1556	16.4	113
103	Wide-Bandgap Conjugated Polymers Based on Alkylthiofuran-Substituted Benzo[1,2-b:4,5-b']difuran for Efficient Fullerene-Free Polymer Solar Cells. <i>Macromolecules</i> , <b>2018</b> , 51, 2498-2505	5.5	20
102	Critical Role of Vertical Phase Separation in Small-Molecule Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 12913-12920	9.5	17
101	Modulating Molecular Orientation Enables Efficient Nonfullerene Small-Molecule Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 2129-2134	9.6	127
100	Synergistic Effects of Fluorination and Alkylthiolation on the Photovoltaic Performance of the Poly(benzodithiophene-benzothiadiazole) Copolymers. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 4686-4694	6.1	8
99	The Introduction of Fluorine and Sulfur Atoms into Benzotriazole-Based p-Type Polymers to Match with a Benzotriazole-Containing n-Type Small Molecule: The Same-Acceptor-Strategy To Realize High Open-Circuit Voltage. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801582	21.8	104
98	Modulation of the Molecular Orientation at the Bulk Heterojunction Interface via Tuning the Small Molecular Donor-Nonfullerene Acceptor Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31526-31534	9.5	21
97	Aromatic end-capped acceptor effects on molecular stacking and the photovoltaic performance of solution-processable small molecules. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 22077-22085	13	13
96	Multifunctional Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1700611	4.8	18
95	A novel small molecule based on naphtho[1,2-b:5,6-b']dithiophene benefits both fullerene and non-fullerene solar cells. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 143-148	7.8	12



94	Self-Assembled 3D Helical Hollow Superstructures with Enhanced Microwave Absorption Properties. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, 1700591	4.8	27
93	Dual-Programmable Shape-Morphing and Self-Healing Organohydrogels Through Orthogonal Supramolecular Heteronetworks. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804435	24	60
92	Fluorination Induced Donor to Acceptor Transformation in A1-D-A2-D-A1-Type Photovoltaic Small Molecules. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 384	5	2
91	Macroscopic helical chirality and self-motion of hierarchical self-assemblies induced by enantiomeric small molecules. <i>Nature Communications</i> , <b>2018</b> , 9, 3808	17.4	16
90	Over 14% Efficiency in Organic Solar Cells Enabled by Chlorinated Nonfullerene Small-Molecule Acceptors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800613	24	538
89	Fluorination vs. chlorination: a case study on high performance organic photovoltaic materials. <i>Science China Chemistry</i> , <b>2018</b> , 61, 1328-1337	7.9	142
88	High open-circuit voltage ternary organic solar cells based on ICBA as acceptor and absorption-complementary donors. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1223-1228	7.8	16
87	New Wide Band Gap Donor for Efficient Fullerene-Free All-Small-Molecule Organic Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1958-1966	16.4	225
86	An Electron Acceptor with Porphyrin and Perylene Bisimides for Efficient Non-Fullerene Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2694-2698	16.4	202
85	Combining Energy Transfer and Optimized Morphology for Highly Efficient Ternary Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602552	21.8	85
84	Investigation of Conjugated Polymers Based on Naphtho[2,3-c]thiophene-4,9-dione in Fullerene-Based and Fullerene-Free Polymer Solar Cells. <i>Macromolecules</i> , <b>2017</b> , 50, 1453-1462	5.5	27
83	Enhancing Performance of Large-Area Organic Solar Cells with Thick Film via Ternary Strategy. <i>Small</i> , <b>2017</b> , 13, 1700388	11	93
82	Rigid Nonfullerene Acceptors Based on Triptycene-Perylene Dye for Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 1286-1290	4.5	17
81	Evolution of morphology and open-circuit voltage in alloy-energy transfer coexisting ternary organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9859-9866	13	30
80	Adaptive and freeze-tolerant heteronetwork organohydrogels with enhanced mechanical stability over a wide temperature range. <i>Nature Communications</i> , <b>2017</b> , 8, 15911	17.4	175
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74	Asymmetric thiophene/pyridine flanked diketopyrrolopyrrole polymers for high performance polymer ambipolar field-effect transistors and solar cells. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 566-572	7.1	38
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72	Non-Fullerene Acceptors With A2 = A1-D-A1 = A2 Skeleton Containing Benzothiadiazole and Thiazolidine-2,4-Dione for High-Performance P3HT-Based Organic Solar Cells. <i>Solar Rrl</i> , <b>2017</b> , 1, 1700168	7.1	38
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70	Two-step crosslinked liquid-crystalline elastomer with reversible two-way shape memory characteristics. <i>Molecular Crystals and Liquid Crystals</i> , <b>2017</b> , 650, 13-22	0.5	10
69	Influence of the replacement of alkoxyl with alkylthienyl on photovoltaic properties of two small molecule donors for organic solar cells. <i>Science China Chemistry</i> , <b>2017</b> , 60, 1340-1348	7.9	19
68	Biphasic Synergistic Gel Materials with Switchable Mechanics and Self-Healing Capacity. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13464-13469	16.4	73
67	Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains for Single-Component Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7073-7077	9.6	63
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64	High-Yield Production of MoS and WS Quantum Sheets from Their Bulk Materials. <i>Nano Letters</i> , <b>2017</b> , 17, 7767-7772	11.5	56
63	Boosting Hot Electrons in Hetero-superstructures for Plasmon-Enhanced Catalysis. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17964-17972	16.4	158
62	Non-Fullerene Acceptors With A2 = A1-D-A1 = A2 Skeleton Containing Benzothiadiazole and Thiazolidine-2,4-Dione for High-Performance P3HT-Based Organic Solar Cells (Solar RRL 110017). <i>Solar Rrl</i> , <b>2017</b> , 1, 1770142	7.1	2
61	Toward Over 15% Power Conversion Efficiency for Organic Solar Cells: Current Status and Perspectives. <i>Small Methods</i> , <b>2017</b> , 1, 1700258	12.8	114
60	Vinylene- and ethynylene-bridged perylene diimide dimers as nonfullerene acceptors for polymer solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 146, 143-150	4.6	11
59	Poly(3-hexylthiophene)-based non-fullerene solar cells achieve high photovoltaic performance with small energy loss. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16573-16579	13	35

58	The effect of tuning chemical structure on the open-circuit voltage and photovoltaic performance of narrow band-gap polymers. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 699-706	2.5	2
57	Restructuring in block copolymer thin films: In situ GISAXS investigations during solvent vapor annealing. <i>Progress in Polymer Science</i> , <b>2017</b> , 66, 80-115	29.6	60
56	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	1444
55	Methylated conjugated polymers based on diketopyrrolopyrrole and dithienothiophene for high performance field-effect transistors. <i>Organic Electronics</i> , <b>2016</b> , 37, 366-370	3.5	19
54	High Hole Mobility in Long-Range Ordered 2D Lead Sulfide Nanocrystal Monolayer Films. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5182-5188	15.6	20
53	Over 11% Efficiency in Tandem Polymer Solar Cells Featured by a Low-Band-Gap Polymer with Fine-Tuned Properties. <i>Advanced Materials</i> , <b>2016</b> , 28, 5133-8	24	133
52	Acceptor End-Capped Oligomeric Conjugated Molecules with Broadened Absorption and Enhanced Extinction Coefficients for High-Efficiency Organic Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 5980-5	24	77
51	Optimized Alloy-Parallel Morphology of Ternary Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502456	21.8	70
50	Dialkoxyphenyldithiophene-based small molecules with enhanced absorption for solution processed organic solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 60595-60601	3.7	6
49	Effect of bifurcation point of alkoxy side chains on photovoltaic performance of 5-alkoxy-6-fluorobenzo[ c ][1,2,5]thiadiazole-based conjugated polymers. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 154, 42-48	6.4	5
48	All-Polymer Solar Cells Based on Absorption-Complementary Polymer Donor and Acceptor with High Power Conversion Efficiency of 8.27%. <i>Advanced Materials</i> , <b>2016</b> , 28, 1884-90	24	604
47	Naphtho[1,2-b:5,6-b']dithiophene-Based Small Molecules for Thick-Film Organic Solar Cells with High Fill Factors. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 943-950	9.6	44
46	D-A1-D-A2 Copolymer Based on Pyridine-Capped Diketopyrrolopyrrole with Fluorinated Benzothiadiazole for High-Performance Ambipolar Organic Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8620-6	9.5	19
45	All-small-molecule organic solar cells based on an electron donor incorporating binary electron-deficient units. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6056-6063	13	43
44	PBDT-TSR: a highly efficient conjugated polymer for polymer solar cells with a regioregular structure. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1708-1713	13	68
43	Toward an equilibrium structure in lamellar diblock copolymer thin films using solvent vapor annealing [An in-situ time-resolved GISAXS study. <i>European Polymer Journal</i> , <b>2016</b> , 81, 607-620	5.2	7
42	A conformational locking strategy in linked-acceptor type polymers for organic solar cells. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 1323-1329	4.9	35
41	Poly(pentacyclic lactam-alt-diketopyrrolopyrrole) for field-effect transistors and polymer solar cells processed from non-chlorinated solvents. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 164-170	4.9	10

40	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. <i>Advanced Materials</i> , <b>2016</b> , 28, 943-50	24	128
39	Self-Doped and Crown-Ether Functionalized Fullerene as Cathode Buffer Layer for Highly-Efficient Inverted Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6,	21.8	13
38	Fluorination-enabled optimal morphology leads to over 11% efficiency for inverted small-molecule organic solar cells. <i>Nature Communications</i> , <b>2016</b> , 7, 13740	17.4	486
37	Perfluoroalkyl-substituted conjugated polymers as electron acceptors for all-polymer solar cells: the effect of diiodoperfluoroalkane additives. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7736-7745	13	25
36	Top-Pinning Controlled Dewetting for Fabrication of Large-Scaled Polymer Microwires and Applications in OFETs. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600111	6.4	9
35	Effects of end-capped acceptors subject to subtle structural changes on solution-processable small molecules for organic solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8894-900	3.6	19
34	Understanding effects of two different acceptors in one small molecule for solution processable organic solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 61703-61709	3.7	
33	Linked-Acceptor Type Conjugated Polymer for High Performance Organic Photovoltaics with an Open-Circuit Voltage Exceeding 1 V. <i>Advanced Science</i> , <b>2015</b> , 2, 1500021	13.6	18
32	Surface growth of highly oriented covalent organic framework thin film with enhanced photoresponse speed. <i>RSC Advances</i> , <b>2015</b> , 5, 92573-92576	3.7	23
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30	Thin-film morphologies of block copolymers with nanoparticles. <i>Powder Diffraction</i> , <b>2015</b> , 30, S16-S24	1.8	3
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28	Oligomeric Donor Material for High-Efficiency Organic Solar Cells: Breaking Down a Polymer. <i>Advanced Materials</i> , <b>2015</b> , 27, 4229-33	24	71
27	A lactam building block for efficient polymer solar cells. <i>Chemical Communications</i> , <b>2015</b> , 51, 11830-3	5.8	66
26	Conjugated Polymer-Small Molecule Alloy Leads to High Efficient Ternary Organic Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 8176-83	16.4	484
25	Structure and Dynamics of Asymmetric Poly(styrene- <i>b</i> -1,4-isoprene) Diblock Copolymer under 1D and 2D Nanoconfinement. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 12328-38	9.5	23
24	Lamellar Diblock Copolymer Thin Films during Solvent Vapor Annealing Studied by GISAXS: Different Behavior of Parallel and Perpendicular Lamellae. <i>Macromolecules</i> , <b>2014</b> , 47, 5711-5718	5.5	53
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19	Molecular Order and Dynamics of Nanometric Thin Layers of Poly(styrene-b-1,4-isoprene) Diblock Copolymers. <i>Macromolecules</i> , <b>2013</b> , 46, 9729-9737	5.5	12
18	Effect of solvent annealing on the tensile deformation mechanism of a colloidal crystalline polymeric latex film. <i>Langmuir</i> , <b>2011</b> , 27, 12197-200	4	3
17	Radial structure of commercial styrene-co-butyl acrylate latex particles by means of synchrotron small-angle X-ray scattering under contrast-variation conditions <b>2011</b> , 8, 489-496		2
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15	In Situ Observation of Tensile Deformation Processes of Soft Colloidal Crystalline Latex Fibers. <i>Macromolecules</i> , <b>2009</b> , 42, 4795-4800	5.5	8
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13	Engineering of the alkyl chain branching point on a lactone polymer donor yields 17.81% efficiency. <i>Journal of Materials Chemistry A</i> ,	13	6
12	Precise Control of Crystal Orientation of Conjugated Molecule Enables Anisotropic Charge Transport Properties. <i>Advanced Functional Materials</i> , 2110080	15.6	4
11	Polymerized Small-Molecule Acceptor as an Interface Modulator to Increase the Performance of All-Small-Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2102394	21.8	1
10	Single-Crystalline Structure Assisted Revealing the Critical Factors for the Properties of All-Small-Molecule Organic Solar Cells. <i>Advanced Energy and Sustainability Research</i> , 2100099	1.6	1
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8	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. <i>Energy and Environmental Science</i> ,	35.4	39
7	Top and bottom electrode optimization enabled high-performance flexible and semi-transparent organic solar cells. <i>Materials Chemistry Frontiers</i> ,	7.8	2
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5	Crystallinity modulation of donors by heteroatom side-chain engineering and solvent additive achieving 14.3% all-small-molecule organic solar cells. <i>Journal of Materials Chemistry A</i> ,	13	5

4	An asymmetric small-molecule donor enables over 18% efficiency in ternary organic solar cells. <i>Journal of Materials Chemistry A</i> ,	13	5
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