

# Wei

## 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.

307  
papers

28,649  
citations

83  
h-index

162  
g-index

311  
ext. papers

31,750  
ext. citations

14.2  
avg, IF

7.45  
L-index

#	Paper	IF	Citations
307	Strengthening the Intermolecular Interaction of Prototypical Semicrystalline Conjugated Polymer Enables Improved Photocurrent Generation at the Heterojunction.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2100871	4.8	0
306	The Importance of Nonequilibrium to Equilibrium Transition Pathways for the Efficiency and Stability of Organic Solar Cells.. <i>Small</i> , <b>2022</b> , e2200608	11	3
305	Kinetics Manipulation Enables High-performance Thick Ternary Organic Solar Cells via R2R Compatible Slot-die Coating. <i>Advanced Materials</i> , <b>2021</b> , e2105114	24	13
304	Modulating Crystal Packing, Film Morphology, and Photovoltaic Performance of Selenophene-Containing Acceptors through a Combination of Skeleton Isomeric and Regioisomeric Strategies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50163-50175	9.5	3
303	Patterned Blade Coating Strategy Enables the Enhanced Device Reproducibility and Optimized Morphology of Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100098	21.8	16
302	Intermolecular Interaction Control Enables Co-optimization of Efficiency, Deformability, Mechanical and Thermal Stability of Stretchable Organic Solar Cells. <i>Small</i> , <b>2021</b> , 17, e2007011	11	9
301	Identifying the Electrostatic and Entropy-Related Mechanisms for Charge-Transfer Exciton Dissociation at Doped Organic Heterojunctions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101892	15.6	10
300	A highly crystalline non-fullerene acceptor enabling efficient indoor organic photovoltaics with high EQE and fill factor. <i>Joule</i> , <b>2021</b> , 5, 1231-1245	27.8	25
299	A Chlorinated Donor Polymer Achieving High-Performance Organic Solar Cells with a Wide Range of Polymer Molecular Weight. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102413	15.6	17
298	Regulating crystallization to maintain balanced carrier mobility via ternary strategy in blade-coated flexible organic solar cells. <i>Organic Electronics</i> , <b>2021</b> , 89, 106027	3.5	6
297	Observing long-range non-fullerene backbone ordering in real-space to improve the charge transport properties of organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16733-16742	13	5
296	Synthesis and Electronic Properties of Diketopyrrolopyrrole-Based Polymers with and without Ring-Fusion. <i>Macromolecules</i> , <b>2021</b> , 54, 970-980	5.5	11
295	Highly efficient fused ring electron acceptors based on a new undecacyclic core. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 2001-2006	7.8	1
294	Optimizing the Alkyl Side-Chain Design of a Wide Band-Gap Polymer Donor for Attaining Nonfullerene Organic Solar Cells with High Efficiency Using a Nonhalogenated Solvent. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5981-5990	9.6	6
293	Different Morphology Dependence for Efficient Indoor Organic Photovoltaics: The Role of the Leakage Current and Recombination Losses. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44604-44614	9.5	3
292	Alkoxy substitution on IDT-Series and Y-Series non-fullerene acceptors yielding highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7481-7490	13	14
291	Effects of the Isomerized Thiophene-Fused Ending Groups on the Performances of Twisted Non-Fullerene Acceptor-Based Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 23904-23913	9.5	16

290	Probe and Control of the Tiny Amounts of Dopants in BHJ Film Enable Higher Performance of Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 25115-25124	9.5	10
289	Balancing the pre-aggregation and crystallization kinetics enables high efficiency slot-die coated organic solar cells with reduced non-radiative recombination losses. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2467-2479	35.4	36
288	Designed Polymer Donors to Match an Amorphous Polymer Acceptor in All-Polymer Solar Cells. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2274-2281	4	5
287	Achieving Balanced Crystallization Kinetics of Donor and Acceptor by Sequential-Blade Coated Double Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000826	21.8	39
286	Effect of polymer donor aggregation on the active layer morphology of amorphous polymer acceptor-based all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 5613-5619	7.1	8
285	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
284	The role of dipole moment in two fused-ring electron acceptor and one polymer donor based ternary organic solar cells. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 1507-1518	7.8	13
283	Calculating Structure-Performance Relationship in Organic Solar Cells. <i>Matter</i> , <b>2020</b> , 2, 14-16	12.7	3
282	Transannularly conjugated tetrameric perylene diimide acceptors containing [2.2]paracyclophane for non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6501-6509	13	26
281	Significance of Dopant/Component Miscibility to Efficient N-Doping in Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13021-13028	9.5	20
280	Enhancing Performance of Fused-Ring Electron Acceptor Using Pyrrole Instead of Thiophene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 14029-14036	9.5	18
279	Molecular and Energetic Order Dominate the Photocurrent Generation Process in Organic Solar Cells with Small Energetic Offsets. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 589-596	20.1	25
278	A bromine and chlorine concurrently functionalized end group for benzo[1,2-b:4,5-b']diselenophene-based non-fluorinated acceptors: a new hybrid strategy to balance the crystallinity and miscibility of blend films for enabling highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4856-4867	13	32
277	Thick-Film Organic Solar Cells Achieving over 11% Efficiency and Nearly 70% Fill Factor at Thickness over 400 nm. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908336	15.6	70
276	Sequential Blade-Coated Acceptor and Donor Enables Simultaneous Enhancement of Efficiency, Stability, and Mechanical Properties for Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903609	21.8	37
275	Polymer Pre-Aggregation Enables Optimal Morphology and High Performance in All-Polymer Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900385	7.1	25
274	High-performance NIR-sensitive fused tetrathienoacene electron acceptors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3011-3017	13	11
273	High-efficiency ternary nonfullerene polymer solar cells with increased phase purity and reduced nonradiative energy loss. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2123-2130	13	24

272	A Conjugated Polymer Containing a B <- N Unit for Unipolar n-Type Organic Field-Effect Transistors. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 19-25	4.3	17
271	Effects of Monofluorinated Positions at the End-Capping Groups on the Performances of Twisted Non-Fullerene Acceptor-Based Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 789-797	9.5	18
270	Chalcogen-Fused Perylene Diimides-Based Nonfullerene Acceptors for High-Performance Organic Solar Cells: Insight into the Effect of O, S, and Se. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900453	7.1	13
269	High-efficiency ternary nonfullerene organic solar cells with record long-term thermal stability. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 22907-22917	13	15
268	Control of the molecular orientation in small molecule-based organic photovoltaics. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4934-4955	5.8	10
267	Methyl functionalization on conjugated side chains for polymer solar cells processed from non-chlorinated solvents. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11532-11539	7.1	2
266	Enhancing the Photovoltaic Performance of a Benzo[[1,2,5]thiadiazole-Based Polymer Donor via a Non-Fullerene Acceptor Pairing Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 53021-53028	9.5	3
265	Efficient Ternary Organic Solar Cells with a New Electron Acceptor Based on 3,4-(2,2-Dihexylpropylenedioxy)thiophene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 40590-40598	9.5	12
264	All-Polymer Solar Cells with over 12% Efficiency and a Small Voltage Loss Enabled by a Polymer Acceptor Based on an Extended Fused Ring Core. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001408	21.8	40
263	Efficient polymer solar cells enabled by alkoxy-phenyl side-chain-modified main-chain-twisted small molecular acceptors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 22335-22345	13	6
262	Hot Hydrocarbon-Solvent Slot-Die Coating Enables High-Efficiency Organic Solar Cells with Temperature-Dependent Aggregation Behavior. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002302	24	65
261	A Nonfullerene Acceptor with Alkylthio- and Dimethoxy-Thiophene-Groups Yielding High-Performance Ternary Organic Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900353	7.1	20
260	A minimal benzo[c][1,2,5]thiadiazole-based electron acceptor as a third component material for ternary polymer solar cells with efficiencies exceeding 16.0%. <i>Materials Horizons</i> , <b>2020</b> , 7, 117-124	14.4	67
259	Blade-coated efficient and stable large-area organic solar cells with optimized additive. <i>Organic Electronics</i> , <b>2020</b> , 83, 105771	3.5	12
258	High-Performance Fluorinated Fused-Ring Electron Acceptor with 3D Stacking and Exciton/Charge Transport. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000645	24	81
257	Perylene Diimide-Based Nonfullerene Polymer Solar Cells with over 11% Efficiency Fabricated by Smart Molecular Design and Supramolecular Morphology Optimization. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1906587	15.6	42
256	Amorphous Polymer Acceptor Containing B <- N Units Matches Various Polymer Donors for All-Polymer Solar Cells. <i>Macromolecules</i> , <b>2019</b> , 52, 7081-7088	5.5	30
255	Aggregation-induced emission triggered by the radiative-transition-switch of a cyclometallated Pt(II) complex. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 12552-12559	7.1	21

254	Optimizing domain size and phase purity in all-polymer solar cells by solution ordered aggregation and confinement effect of the acceptor. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 12560-12571	7.1	25
253	Making weak dopants strong. <i>Nature Materials</i> , <b>2019</b> , 18, 1269-1270	27	5
252	A non-fullerene acceptor based on alkylphenyl substituted benzodithiophene for high efficiency polymer solar cells with a small voltage loss and excellent stability. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24366-24373	13	23
251	Interfacial and Bulk Nanostructures Control Loss of Charges in Organic Solar Cells. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 2904-2915	24.3	39
250	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. <i>Science China Chemistry</i> , <b>2019</b> , 62, 370-377	7.9	24
249	Low-Energy-Loss Polymer Solar Cells with 14.52% Efficiency Enabled by Wide-Band-Gap Copolymers. <i>IScience</i> , <b>2019</b> , 12, 1-12	6.1	51
248	High-performance organic solar cells based on polymer donor/small molecule donor/nonfullerene acceptor ternary blends. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2268-2274	13	32
247	Fine Optimization of Morphology Evolution Kinetics with Binary Additives for Efficient Non-Fullerene Organic Solar Cells. <i>Advanced Science</i> , <b>2019</b> , 6, 1801560	13.6	22
246	Tweaking the Molecular Geometry of a Tetraperylenediimide Acceptor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 6970-6977	9.5	15
245	Non-fullerene organic solar cells based on a small molecule with benzo[1,2-c:4,5-c']dithiophene-4,8-dione as bridge. <i>Organic Electronics</i> , <b>2019</b> , 67, 175-180	3.5	7
244	Nonhalogen solvent-processed polymer solar cells based on chlorine and trialkylsilyl substituted conjugated polymers achieve 12.8% efficiency. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2351-2359	13	61
243	A small molecule donor containing a non-fused ring core for all-small-molecule organic solar cells with high efficiency over 11%. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3682-3690	13	27
242	Highly efficient near-infrared and semitransparent polymer solar cells based on an ultra-narrow bandgap nonfullerene acceptor. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3745-3751	13	70
241	Control of Donor-Acceptor Photophysics through Structural Modification of a Twisting PushPull Molecule. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6860-6869	9.6	11
240	Single-Junction Polymer Solar Cells with 16.35% Efficiency Enabled by a Platinum(II) Complexation Strategy. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901872	24	447
239	Stable large area organic solar cells realized by using random terpolymers donors combined with a ternary blend. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14199-14208	13	35
238	Increasing Quantum Efficiency of Polymer Solar Cells with Efficient Exciton Splitting and Long Carrier Lifetime by Molecular Doping at Heterojunctions. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1356-1363	20.1	29
237	14.7% Efficiency Organic Photovoltaic Cells Enabled by Active Materials with a Large Electrostatic Potential Difference. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7743-7750	16.4	244

236	Unconjugated Side-Chain Engineering Enables Small Molecular Acceptors for Highly Efficient Non-Fullerene Organic Solar Cells: Insights into the Fine-Tuning of Acceptor Properties and Micromorphology. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902155	15.6	86
235	Modulating morphology via side-chain engineering of fused ring electron acceptors for high performance organic solar cells. <i>Science China Chemistry</i> , <b>2019</b> , 62, 790-796	7.9	16
234	Efficient Polymer Solar Cells Having High Open-Circuit Voltage and Low Energy Loss Enabled by a Main-Chain Twisted Small Molecular Acceptor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16795-16803	8.5	22
233	Molecular Orientation of Polymer Acceptor Dominates Open-Circuit Voltage Losses in All-Polymer Solar Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1057-1064	20.1	29
232	Enhanced $\pi$ - $\pi$ Interactions of Nonfullerene Acceptors by Volatilizable Solid Additives in Efficient Polymer Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900477	24	69
231	A High-Performance Non-Fullerene Acceptor Compatible with Polymers with Different Bandgaps for Efficient Organic Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800376	7.1	34
230	Improving Active Layer Morphology of All-Polymer Solar Cells by Dissolving the Two Polymers Individually. <i>Macromolecules</i> , <b>2019</b> , 52, 2402-2410	5.5	35
229	Reduced Energy Loss Enabled by a Chlorinated Thiophene-Fused Ending-Group Small Molecular Acceptor for Efficient Nonfullerene Organic Solar Cells with 13.6% Efficiency. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900041	21.8	117
228	Organic Solar Cells Based on High Hole Mobility Conjugated Polymer and Nonfullerene Acceptor with Comparable Bandgaps and Suitable Energy Level Offsets Showing Significant Suppression of Jsc/Voc Trade-Off. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900079	7.1	20
227	Enhancing Molecular Aggregations by Intermolecular Hydrogen Bonds to Develop Phosphorescent Emitters for High-Performance Near-Infrared OLEDs. <i>Advanced Science</i> , <b>2019</b> , 6, 1801930	13.6	44
226	Efficient Nonhalogenated Solvent-Processed Ternary All-Polymer Solar Cells with a Favorable Morphology Enabled by Two Well-Compatible Donors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32200-32208	9.5	22
225	16.7%-efficiency ternary blended organic photovoltaic cells with PCBM as the acceptor additive to increase the open-circuit voltage and phase purity. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20713-20722	13.2	186
224	Morphology of small molecular donor/polymer acceptor blends in organic solar cells: effect of the stacking capability of the small molecular donors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10521-10529	7.1	10
223	A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903649	24	81
222	Cold Crystallization Temperature Correlated Phase Separation, Performance, and Stability of Polymer Solar Cells. <i>Matter</i> , <b>2019</b> , 1, 1316-1330	12.7	32
221	High-Efficiency As-Cast Organic Solar Cells Based on Acceptors with Steric Hindrance Induced Planar Terminal Group. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901280	21.8	64
220	Enhancing the Photovoltaic Performance of Ladder-Type Dithienocyclopentacarbazole-Based Nonfullerene Acceptors through Fluorination and Side-Chain Engineering. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5953-5963	9.6	35
219	Noncovalently fused-ring electron acceptors with near-infrared absorption for high-performance organic solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 3038	17.4	166



218	Ternary Blended Fullerene-Free Polymer Solar Cells with 16.5% Efficiency Enabled with a Higher-LUMO-Level Acceptor to Improve Film Morphology. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901728	21.8	181
217	Efficient and thermally stable organic solar cells based on small molecule donor and polymer acceptor. <i>Nature Communications</i> , <b>2019</b> , 10, 3271	17.4	64
216	Impact of the Siloxane-Terminated Side Chain on Photovoltaic Performances of the Dithienylbenzodithiophene-Difluorobenzotriazole-Based Wide Band Gap Polymer Donor in Non-Fullerene Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29094-29104	9.5	22
215	14%-efficiency fullerene-free ternary solar cell enabled by designing a short side-chain substituted small-molecule acceptor. <i>Nano Energy</i> , <b>2019</b> , 64, 103934	17.1	34
214	A Mechanically Robust Conducting Polymer Network Electrode for Efficient Flexible Perovskite Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 2205-2218	27.8	111
213	Exploring Overall Photoelectric Applications by Organic Materials Containing Symmetric Donor Isomers. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 8810-8819	9.6	8
212	Donor Polymer Can Assist Electron Transport in Bulk Heterojunction Blends with Small Energetic Offsets. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903998	24	34
211	π-Stacking Distance and Phase Separation Controlled Efficiency in Stable All-Polymer Solar Cells. <i>Polymers</i> , <b>2019</b> , 11,	4.5	11
210	Individual nanostructure optimization in donor and acceptor phases to achieve efficient quaternary organic solar cells. <i>Nano Energy</i> , <b>2019</b> , 66, 104176	17.1	12
209	Processing-Friendly Slot-Die-Cast Nonfullerene Organic Solar Cells with Optimized Morphology. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42392-42402	9.5	21
208	A wide bandgap conjugated polymer donor based on alkoxy-fluorophenyl substituted benzodithiophene for high performance non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1307-1314	13	17
207	Effects of Terminal Groups in Third Components on Performance of Organic Solar Cells. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2019</b> , 35, 275-283	3.8	3
206	Regulating exciton bonding energy and bulk heterojunction morphology in organic solar cells via methyl-functionalized non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6809-6817	13	18
205	Boosting the Performance of Non-Fullerene Organic Solar Cells via Cross-Linked Donor Polymers Design. <i>Macromolecules</i> , <b>2019</b> , 52, 2214-2221	5.5	21
204	Molecular packing control enables excellent performance and mechanical property of blade-cast all-polymer solar cells. <i>Nano Energy</i> , <b>2019</b> , 59, 277-284	17.1	39
203	Nonfullerene acceptors with a novel nonacyclic core for high-performance polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 3335-3341	7.1	5
202	Tannin-controlled micelles and fibrils of β-casein. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 245103	3.9	1
201	A blade-coated highly efficient thick active layer for non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22265-22273	13	34

200	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
199	Synergistic effects of copolymerization and fluorination on acceptor polymers for efficient and stable all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14130-14140	7.1	19
198	Optimized mixed phases to achieve improved performance of organic solar cells. <i>MRS Communications</i> , <b>2019</b> , 9, 1235-1241	2.7	
197	Naphthalene core-based noncovalently fused-ring electron acceptors: effects of linkage positions on photovoltaic performances. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 15141-15147	7.1	15
196	Dithienothiapyran: An Excellent Donor Block for Building High-Performance Copolymers in Nonfullerene Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3308-3316	9.5	18
195	High-Performance Mid-Bandgap Fused-Pyrene Electron Acceptor. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6484-6490	6.9	31
194	Controlling Molecular Packing and Orientation via Constructing a Ladder-Type Electron Acceptor with Asymmetric Substituents for Thick-Film Nonfullerene Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3098-3106	9.5	32
193	Efficient Quaternary Organic Solar Cells with Parallel-Alloy Morphology. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806804	15.6	47
192	Hierarchical Morphology Stability under Multiple Stresses in Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 447-455	20.1	47
191	Achieving High Doping Concentration by Dopant Vapor Deposition in Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 4178-4184	9.5	12
190	13%-Efficiency Quaternary Polymer Solar Cell with Nonfullerene and Fullerene as Mixed Electron Acceptor Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 766-773	9.5	15
189	Using ternary blend as a strategy to improve the driving force for charge transfer and facilitate electron transport in polymer solar cells. <i>Organic Electronics</i> , <b>2019</b> , 65, 419-425	3.5	8
188	Effects of solvent vapour annealing on the performances of benzo[1,2-b:4,5-b']dithiophene and 4,7-di(4-hexyl-thiophen-2-yl)-5,6-difluorine-2,1,3-benzothiadiazole-based alternating polymer solar cells with different configurations. <i>Dyes and Pigments</i> , <b>2019</b> , 161, 58-65	4.6	7
187	Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706363	24	148
186	Vertical Stratification Engineering for Organic Bulk-Heterojunction Devices. <i>ACS Nano</i> , <b>2018</b> , 12, 4440-4452	45.7	56
185	Blade-Cast Nonfullerene Organic Solar Cells in Air with Excellent Morphology, Efficiency, and Stability. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800343	24	118
184	Lewis Acid Doping Induced Synergistic Effects on Electronic and Morphological Structure for Donor and Acceptor in Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703672	21.8	43
183	Chlorine substituted 2D-conjugated polymer for high-performance polymer solar cells with 13.1% efficiency via toluene processing. <i>Nano Energy</i> , <b>2018</b> , 48, 413-420	17.1	212



182	Significant enhancement of the photovoltaic performance of organic small molecule acceptors via side-chain engineering. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7988-7996	13	36
181	A Donor Polymer Based on a Difluorinated Pentathiophene Unit Enabling Enhanced Performance for Nonfullerene Organic Solar Cells. <i>Small Methods</i> , <b>2018</b> , 2, 1700415	12.8	13
180	High-Performance Thick-Film All-Polymer Solar Cells Created Via Ternary Blending of a Novel Wide-Bandgap Electron-Donating Copolymer. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703085	21.8	97
179	Fused pentacyclic electron acceptors with four cis-arranged alkyl side chains for efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3724-3729	13	25
178	High-performance all-polymer solar cells based on fluorinated naphthalene diimide acceptor polymers with fine-tuned crystallinity and enhanced dielectric constants. <i>Nano Energy</i> , <b>2018</b> , 45, 368-379 <sup>17.1</sup>	17.1	86
177	Multiple Cases of Efficient Nonfullerene Ternary Organic Solar Cells Enabled by an Effective Morphology Control Method. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701370	21.8	116
176	Enhancing the performance of the electron acceptor ITIC-Th via tailoring its end groups. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 537-543	7.8	36
175	Fluorinated and Alkylthiolated Polymeric Donors Enable both Efficient Fullerene and Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706404	15.6	57
174	Fused Tris(thienothiophene)-Based Electron Acceptor with Strong Near-Infrared Absorption for High-Performance As-Cast Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705969	24	305
173	Novel EConjugated Polymer Based on an Extended Thienoquinoid. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 319-323	9.6	11
172	Alkyl Chain Regiochemistry of Benzotriazole-Based Donor Polymers Influencing Morphology and Performances of Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702427	21.8	31
171	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
170	A Simple but Efficient Small Molecule with a High Open Circuit Voltage of 1.07 V in Solution-Processable Organic Solar Cells. <i>Asian Journal of Organic Chemistry</i> , <b>2018</b> , 7, 558-562	3	2
169	A new strategy for designing polymer electron acceptors: electronrich conjugated backbone with electron-deficient side units. <i>Science China Chemistry</i> , <b>2018</b> , 61, 824-829	7.9	26
168	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
167	Miscibility-Driven Optimization of Nanostructures in Ternary Organic Solar Cells Using Non-fullerene Acceptors. <i>Joule</i> , <b>2018</b> , 2, 621-641	27.8	92
166	Rational design of conjugated side chains for high-performance all-polymer solar cells. <i>Molecular Systems Design and Engineering</i> , <b>2018</b> , 3, 103-112	4.6	18
165	8.0% Efficient All-Polymer Solar Cells with High Photovoltage of 1.1 V and Internal Quantum Efficiency near Unity. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1700908	21.8	76

164	Controlling Molecular Weight to Achieve High-Efficient Polymer Solar Cells With Unprecedented Fill Factor of 79% Based on Non-Fullerene Small Molecule Acceptor. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800129	7.1	14
163	A wide-bandgap polymer based on the alkylphenyl-substituted benzo[1,2-b:4,5-b']dithiophene unit with high power conversion efficiency of over 11%. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16529-16536	12	21
162	Effect of Ring-Fusion on Miscibility and Domain Purity: Key Factors Determining the Performance of PDI-Based Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800234	21.8	59
161	Nonfullerene Acceptors with Enhanced Solubility and Ordered Packing for High-Efficiency Polymer Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1832-1839	20.1	96
160	Balancing Crystal Size in Small-Molecule Nonfullerene Solar Cells through Fine-Tuning the Film-Forming Kinetics to Fabricate Interpenetrating Network. <i>ACS Omega</i> , <b>2018</b> , 3, 7603-7612	3.9	9
159	Influence of substrate temperature on the film morphology and photovoltaic performance of non-fullerene organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 174, 1-6	6.4	8
158	Carboxylate substitution position influencing polymer properties and enabling non-fullerene organic solar cells with high open circuit voltage and low voltage loss. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16874-16881	13	9
157	Importance of Nucleation during Morphology Evolution of the Blade-Cast PffBT4T-2OD-Based Organic Solar Cells. <i>Macromolecules</i> , <b>2018</b> , 51, 6682-6691	5.5	24
156	Star-like n-type conjugated polymers based on naphthalenediimide for all-polymer solar cells. <i>Dyes and Pigments</i> , <b>2018</b> , 159, 85-91	4.6	11
155	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
154	Near-Infrared Small Molecule Acceptor Enabled High-Performance Nonfullerene Polymer Solar Cells with Over 13% Efficiency. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803128	15.6	70
153	Relating open-circuit voltage losses to the active layer morphology and contact selectivity in organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12574-12581	13	53
152	Naphthodithiophene-Based Nonfullerene Acceptor for High-Performance Organic Photovoltaics: Effect of Extended Conjugation. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704713	24	183
151	Enhancing the performance of a fused-ring electron acceptor via extending benzene to naphthalene. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 66-71	7.1	34
150	Breaking 10% Efficiency in Semitransparent Solar Cells with Fused-Undecacyclic Electron Acceptor. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 239-245	9.6	144
149	Tunable Electron Donating and Accepting Properties Achieved by Modulating the Steric Hindrance of Side Chains in A-D-A Small-Molecule Photovoltaic Materials. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 619-628	9.6	39
148	Absorptive Behaviors and Photovoltaic Performance Enhancements of Alkoxy-Phenyl Modified Indacenodithieno[3,2-b]thiophene-Based Nonfullerene Acceptors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2177-2187	8.3	24
147	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 395-403	13	173

146	Realizing Over 13% Efficiency in Green-Solvent-Processed Nonfullerene Organic Solar Cells Enabled by 1,3,4-Thiadiazole-Based Wide-Bandgap Copolymers. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703973	24	364
145	High-performance organic solar cells based on a small molecule with thieno[3,2-b]thiophene as Ebridge. <i>Organic Electronics</i> , <b>2018</b> , 53, 273-279	3.5	21
144	Improving Performance of All-Polymer Solar Cells Through Backbone Engineering of Both Donors and Acceptors. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800247	7.1	13
143	A Nonfullerene Semitransparent Tandem Organic Solar Cell with 10.5% Power Conversion Efficiency. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800529	21.8	71
142	Efficient Nonfullerene Organic Solar Cells with Small Driving Forces for Both Hole and Electron Transfer. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804215	24	116
141	Cyclopentadithiophene-cored non-fullerene acceptors for efficient polymer solar cells with superior stability. <i>Solar Energy</i> , <b>2018</b> , 174, 991-998	6.8	9
140	Large-Area, Semitransparent, and Flexible All-Polymer Photodetectors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805570	15.6	50
139	Achieving Balanced Crystallinity of Donor and Acceptor by Combining Blade-Coating and Ternary Strategies in Organic Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1805041	24	105
138	Fine-tuning of the chemical structure of photoactive materials for highly efficient organic photovoltaics. <i>Nature Energy</i> , <b>2018</b> , 3, 1051-1058	62.3	235
137	Use of two structurally similar small molecular acceptors enabling ternary organic solar cells with high efficiencies and fill factors. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3275-3282	35.4	227
136	A Fused Ring Electron Acceptor with Decacyclic Core Enables over 13.5% Efficiency for Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802050	21.8	83
135	A Simple, Small-Bandgap Porphyrin-Based Conjugated Polymer for Application in Organic Electronics. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800546	4.8	7
134	Effect of Side Groups on the Photovoltaic Performance Based on Porphyrin-Perylene Bisimide Electron Acceptors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 32454-32461	9.5	15
133	The Impact of Device Polarity on the Performance of PolymerFullerene Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800550	21.8	22
132	Optimized Fibril Network Morphology by Precise Side-Chain Engineering to Achieve High-Performance Bulk-Heterojunction Organic Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707353	24	226
131	Modulation of bulk heterojunction morphology through small Ebridge changes for polymer solar cells with enhanced performance. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5999-6007	7.1	5
130	High-Performance Semitransparent Ternary Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800627	15.6	89
129	Highly Efficient Nonfullerene Polymer Solar Cells Enabled by a Copper(I) Coordination Strategy Employing a 1,3,4-Oxadiazole-Containing Wide-Bandgap Copolymer Donor. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800737	24	69

128	Understanding the influence of carboxylate substitution on the property of high-performance donor polymers in non-fullerene organic solar cells. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 1360-1365	7.8	5
127	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1760-1768	20.1	90
126	Manipulating active layer morphology of molecular donor/polymer acceptor based organic solar cells through ternary blends. <i>Science China Chemistry</i> , <b>2018</b> , 61, 1025-1033	7.9	16
125	Indacenodithiophene-based wide bandgap copolymers for high performance single-junction and tandem polymer solar cells. <i>Nano Energy</i> , <b>2017</b> , 33, 313-324	17.1	45
124	High-Performance Ternary Organic Solar Cell Enabled by a Thick Active Layer Containing a Liquid Crystalline Small Molecule Donor. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 2387-2395	16.4	351
123	Non-fullerene organic solar cells based on diketopyrrolopyrrole polymers as electron donors and ITIC as an electron acceptor. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 8069-8075	3.6	24
122	Enhanced open-circuit voltage in methoxyl substituted benzodithiophene-based polymer solar cells. <i>Science China Chemistry</i> , <b>2017</b> , 60, 243-250	7.9	11
121	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
120	Single-Junction Binary-Blend Nonfullerene Polymer Solar Cells with 12.1% Efficiency. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700144	24	566
119	A novel wide bandgap conjugated polymer (2.0 eV) based on bithiazole for high efficiency polymer solar cells. <i>Nano Energy</i> , <b>2017</b> , 34, 556-561	17.1	30
118	Enhancing Performance of Large-Area Organic Solar Cells with Thick Film via Ternary Strategy. <i>Small</i> , <b>2017</b> , 13, 1700388	11	93
117	Insights into the influence of fluorination positions on polymer donor materials on photovoltaic performance. <i>Organic Electronics</i> , <b>2017</b> , 46, 115-120	3.5	4
116	Polymer Electron Acceptors with Conjugated Side Chains for Improved Photovoltaic Performance. <i>Macromolecules</i> , <b>2017</b> , 50, 3171-3178	5.5	33
115	Tuning Energy Levels without Negatively Affecting Morphology: A Promising Approach to Achieving Optimal Energetic Match and Efficient Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602119	21.8	35
114	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
113	Optimal extent of fluorination enabling strong temperature-dependent aggregation, favorable blend morphology and high-efficiency polymer solar cells. <i>Science China Chemistry</i> , <b>2017</b> , 60, 545-551	7.9	23
112	Non-fullerene small molecular acceptors based on dithienocyclopentafluorene and dithienocyclopentacarbazole cores for polymer solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 144, 48-57	4.6	24
111	From Binary to Ternary: Improving the External Quantum Efficiency of Small-Molecule Acceptor-Based Polymer Solar Cells with a Minute Amount of Fullerene Sensitization. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700328	21.8	49

110	Enhancing the performance of non-fullerene solar cells with polymer acceptors containing large-sized aromatic units. <i>Organic Electronics</i> , <b>2017</b> , 47, 133-138	3.5	13
109	Selenium-Containing Medium Bandgap Copolymer for Bulk Heterojunction Polymer Solar Cells with High Efficiency of 9.8%. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4811-4818	9.6	49
108	Ternary organic solar cells with enhanced open circuit voltage. <i>Nano Energy</i> , <b>2017</b> , 37, 24-31	17.1	83
107	Room temperature processed polymers for high-efficient polymer solar cells with power conversion efficiency over 9%. <i>Nano Energy</i> , <b>2017</b> , 37, 32-39	17.1	44
106	A Wide-Bandgap Donor Polymer for Highly Efficient Non-fullerene Organic Solar Cells with a Small Voltage Loss. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6298-6301	16.4	288
105	Conjugated polymer acceptors based on fused perylene bisimides with a twisted backbone for non-fullerene solar cells. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 3300-3306	4.9	39
104	Triperylene Hexaimides Based All-Small-Molecule Solar Cells with an Efficiency over 6% and Open Circuit Voltage of 1.04 V. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601664	21.8	51
103	Alkyl Side-Chain Engineering in Wide-Bandgap Copolymers Leading to Power Conversion Efficiencies over 10. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604251	24	199
102	Thieno[3,4-c]pyrrole-4,6(5H)-dione Polymers with Optimized Energy Level Alignments for Fused-Ring Electron Acceptor Based Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5636-5645	9.6	36
101	Enhancing the Performance of Polymer Solar Cells by Using Donor Polymers Carrying Discretely Distributed Side Chains. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24020-24026	9.5	8
100	Tuning molecule diffusion to control the phase separation of the p-DTS(FBTTh2)/EP-PDI blend system via thermal annealing. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 6842-6851	7.1	11
99	A ternary conjugated D $\pi$ A copolymer yields over 9.0% efficiency in organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12015-12021	13	9
98	Two compatible nonfullerene acceptors with similar structures as alloy for efficient ternary polymer solar cells. <i>Nano Energy</i> , <b>2017</b> , 38, 510-517	17.1	137
97	High-Performance Non-Fullerene Polymer Solar Cells Based on Fluorine Substituted Wide Bandgap Copolymers Without Extra Treatments. <i>Solar Rrl</i> , <b>2017</b> , 1, 1700020	7.1	94
96	Conjugated Lewis Base: Efficient Trap-Passivation and Charge-Extraction for Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604545	24	431
95	Morphology optimization in ternary organic solar cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2017</b> , 35, 184-197	3.5	41
94	Enhancing performance of non-fullerene organic solar cells via side chain engineering of fused-ring electron acceptors. <i>Dyes and Pigments</i> , <b>2017</b> , 139, 627-634	4.6	40
93	Influence of alkyl chains on photovoltaic properties of 3D rylene propeller electron acceptors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3475-3482	13	44



92	Angular-Shaped Dithienonaphthalene-Based Nonfullerene Acceptor for High-Performance Polymer Solar Cells with Large Open-Circuit Voltages and Minimal Energy Losses. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9775-9785	9.6	52
91	Ternary organic solar cells: compatibility controls for morphology evolution of active layers. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10801-10812	7.1	24
90	Unraveling the Solution-State Supramolecular Structures of Donor-Acceptor Polymers and their Influence on Solid-State Morphology and Charge-Transport Properties. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701072	24	83
89	A universal approach to improve electron mobility without significant enlarging phase separation in IDT-based non-fullerene acceptor organic solar cells. <i>Nano Energy</i> , <b>2017</b> , 41, 609-617	17.1	43
88	Fused-Ring Acceptors with Asymmetric Side Chains for High-Performance Thick-Film Organic Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703527	24	204
87	Improved Domain Size and Purity Enables Efficient All-Small-Molecule Ternary Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703777	24	83
86	Highly Efficient Ternary-Blend Polymer Solar Cells Enabled by a Nonfullerene Acceptor and Two Polymer Donors with a Broad Composition Tolerance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704271	24	196
85	Improved Glass Transition Temperature towards Thermal Stability via Thiols Solvent Additive versus DIO in Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1700428	4.8	26
84	Ladder-Type Dithienonaphthalene-Based Small-Molecule Acceptors for Efficient Nonfullerene Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7942-7952	9.6	96
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81	9.0% power conversion efficiency from ternary all-polymer solar cells. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2212-2221	35.4	179
80	Non-halogenated solvent-processed single-junction polymer solar cells with 9.91% efficiency and improved photostability. <i>Nano Energy</i> , <b>2017</b> , 41, 27-34	17.1	33
79	Ternary Organic Solar Cells with Minimum Voltage Losses. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700390	21.8	49
78	Enhancing Performance of Nonfullerene Acceptors via Side-Chain Conjugation Strategy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702125	24	227
77	High Efficiency Nonfullerene Polymer Solar Cells with Thick Active Layer and Large Area. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702291	24	175
76	Data on the detail information of influence of substrate temperature on the film morphology and photovoltaic performance of non-fullerene organic solar cells. <i>Data in Brief</i> , <b>2017</b> , 14, 531-537	1.2	3
75	High-performance nonfullerene polymer solar cells with open-circuit voltage over 1 V and energy loss as low as 0.54 eV. <i>Nano Energy</i> , <b>2017</b> , 40, 20-26	17.1	58



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73	Rational design of perylene diimide-based polymer acceptor for efficient all-polymer solar cells. <i>Organic Electronics</i> , <b>2017</b> , 50, 376-383	3.5	9
72	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604155	24	335
71	Effect of Alkyl Side Chains of Conjugated Polymer Donors on the Device Performance of Non-Fullerene Solar Cells. <i>Macromolecules</i> , <b>2016</b> , 49, 6445-6454	5.5	70
70	Ternary-Blend Polymer Solar Cells Combining Fullerene and Nonfullerene Acceptors to Synergistically Boost the Photovoltaic Performance. <i>Advanced Materials</i> , <b>2016</b> , 28, 9559-9566	24	242
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66	10.8% Efficiency Polymer Solar Cells Based on PTB7-Th and PC71BM via Binary Solvent Additives Treatment. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6635-6640	15.6	254
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64	Fast charge separation in a non-fullerene organic solar cell with a small driving force. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	967
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62	Efficient organic solar cells processed from hydrocarbon solvents. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	1876
61	High-Performance Hole Transport and Quasi-Balanced Ambipolar OFETs Based on DAA Thieno-benzo-isoindigo Polymers. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500313	6.4	29
60	Optimized Alloy-Parallel Morphology of Ternary Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502456	21.8	70
59	High Bandgap (1.9 eV) Polymer with Over 8% Efficiency in Bulk Heterojunction Solar Cells. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600084	6.4	31
58	High-Performance Electron Acceptor with Thienyl Side Chains for Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 4955-61	16.4	831
57	Inverted all-polymer solar cells based on a quinoxaline-phenylene/naphthalene-diimide polymer blend improved by annealing. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3835-3843	13	51

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55	Surface treatment by binary solvents induces the crystallization of a small molecular donor for enhanced photovoltaic performance. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 735-42	3.6	13
54	Fullerene-Free Polymer Solar Cells with Open-Circuit Voltage above 1.2 V: Tuning Phase Separation Behavior with Oligomer to Replace Polymer Acceptor. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5922-5929	15.6	31
53	Perylene Diimide Trimers Based Bulk Heterojunction Organic Solar Cells with Efficiency over 7%. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600060	21.8	97
52	Alloy Acceptor: Superior Alternative to PCBM toward Efficient and Stable Organic Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 8021-8028	24	189
51	A Cross-Linkable Donor Polymer as the Underlying Layer to Tune the Active Layer Morphology of Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 226-232	15.6	34
50	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
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47	1,8-Naphthalimide-based nonfullerene acceptors for wide optical band gap polymer solar cells with an ultrathin active layer thickness of 35 nm. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 5656-5663	7.1	37
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45	Enhanced Molecular Packing of a Conjugated Polymer with High Organic Thermoelectric Power Factor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24737-43	9.5	69
44	Indenothiophene-Based Wide Bandgap Copolymer for Polymer Fullerene Solar Cells with 9.01% Efficiency and 1.0 V Open Circuit Voltage. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600340	6.4	27
43	Enhancing the photovoltaic performance of binary acceptor-based conjugated polymers incorporating methyl units. <i>RSC Advances</i> , <b>2016</b> , 6, 98071-98079	3.7	5
42	High Performance All-Polymer Solar Cells by Synergistic Effects of Fine-Tuned Crystallinity and Solvent Annealing. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10935-44	16.4	362
41	High-performance conjugated terpolymer-based organic bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13930-13937	13	24
40	Efficient and stable organic solar cells via a sequential process. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8086-8093	7.1	39
39	An effective way to reduce energy loss and enhance open-circuit voltage in polymer solar cells based on a diketopyrrolopyrrole polymer containing three regular alternating units. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13265-13270	13	38

38	A wide-bandgap conjugated polymer for highly efficient inverted single and tandem polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13251-13258	13	49
37	Diluting concentrated solution: a general, simple and effective approach to enhance efficiency of polymer solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2357-2364	35.4	73
36	Incorporation of Fluorine onto Different Positions of Phenyl Substituted Benzo[1,2-b:4,5-b']dithiophene Unit: Influence on Photovoltaic Properties. <i>Macromolecules</i> , <b>2015</b> , 48, 4347-4356	5.5	48
35	A planar electron acceptor for efficient polymer solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3215-3221	35.4	283
34	Terthiophene-based D-A polymer with an asymmetric arrangement of alkyl chains that enables efficient polymer solar cells. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14149-57	16.4	358
33	Rational selection of solvents and fine tuning of morphologies toward highly efficient polymer solar cells fabricated using green solvents. <i>RSC Advances</i> , <b>2015</b> , 5, 69567-69572	3.7	34
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30	One-Step Synthesis of Precursor Oligomers for Organic Photovoltaics: A Comparative Study between Polymers and Small Molecules. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 27106-14	9.5	23
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26	A Large-Bandgap Conjugated Polymer for Versatile Photovoltaic Applications with High Performance. <i>Advanced Materials</i> , <b>2015</b> , 27, 4655-60	24	586
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23	Tuning Local Molecular Orientation/Composition Correlations in Binary Organic Thin Films by Solution Shearing. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3131-3137	15.6	25
22	Dramatic performance enhancement for large bandgap thick-film polymer solar cells introduced by a difluorinated donor unit. <i>Nano Energy</i> , <b>2015</b> , 15, 607-615	17.1	89
21	Enhanced photovoltaic performance by modulating surface composition in bulk heterojunction polymer solar cells based on PBDTTT-C-T/PC71 BM. <i>Advanced Materials</i> , <b>2014</b> , 26, 4043-9	24	198

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19	High performance all-polymer solar cell via polymer side-chain engineering. <i>Advanced Materials</i> , <b>2014</b> , 26, 3767-72	24	300
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17	Aggregation and morphology control enables multiple cases of high-efficiency polymer solar cells. <i>Nature Communications</i> , <b>2014</b> , 5, 5293	17.4	2609
16	A polythiophene derivative with superior properties for practical application in polymer solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 5880-5	24	173
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