

# Wei

## List of Publications by Citations

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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	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
306	Efficient organic solar cells processed from hydrocarbon solvents. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	1876
305	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
304	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
303	A Large-Bandgap Conjugated Polymer for Versatile Photovoltaic Applications with High Performance. <i>Advanced Materials</i> , <b>2015</b> , 27, 4655-60	24	586
302	Single-Junction Binary-Blend Nonfullerene Polymer Solar Cells with 12.1% Efficiency. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700144	24	566
301	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
300	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
299	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
298	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
297	The influence of molecular orientation on organic bulk heterojunction solar cells. <i>Nature Photonics</i> , <b>2014</b> , 8, 385-391	33.9	396
296	Three-Bladed Rylene Propellers with Three-Dimensional Network Assembly for Organic Electronics. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10184-90	16.4	391
295	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
294	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
293	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
292	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
291	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604155	24	335

290	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
289	High performance all-polymer solar cell via polymer side-chain engineering. <i>Advanced Materials</i> , <b>2014</b> , 26, 3767-72	24	300
288	Donor polymer design enables efficient non-fullerene organic solar cells. <i>Nature Communications</i> , <b>2016</b> , 7, 13094	17.4	298
287	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
286	A planar electron acceptor for efficient polymer solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3215-3221	35.4	283
285	From binary to ternary solvent: morphology fine-tuning of D/A blends in PDPP3T-based polymer solar cells. <i>Advanced Materials</i> , <b>2012</b> , 24, 6335-41	24	276
284	Domain Purity, Miscibility, and Molecular Orientation at Donor/Acceptor Interfaces in High Performance Organic Solar Cells: Paths to Further Improvement. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 864-872	21.8	256
283	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
282	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
281	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
280	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
279	Enhancing Performance of Nonfullerene Acceptors via Side-Chain Conjugation Strategy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702125	24	227
278	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
277	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
276	High-Performance Non-Fullerene Polymer Solar Cells Based on a Pair of Donor-Acceptor Materials with Complementary Absorption Properties. <i>Advanced Materials</i> , <b>2015</b> , 27, 7299-304	24	219
275	High-efficiency all-polymer solar cells based on a pair of crystalline low-bandgap polymers. <i>Advanced Materials</i> , <b>2014</b> , 26, 7224-30	24	218
274	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
273	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

272	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
271	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
270	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
269	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
268	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	186
267	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
266	Naphthodithiophene-Based Nonfullerene Acceptor for High-Performance Organic Photovoltaics: Effect of Extended Conjugation. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704713	24	183
265	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
264	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
263	PDT-S-T: a new polymer with optimized molecular conformation for controlled aggregation and $\pi$ stacking and its application in efficient photovoltaic devices. <i>Advanced Materials</i> , <b>2013</b> , 25, 3449-55	24	179
262	High Efficiency Nonfullerene Polymer Solar Cells with Thick Active Layer and Large Area. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702291	24	175
261	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
260	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
259	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
258	Influence of Processing Parameters and Molecular Weight on the Morphology and Properties of High-Performance PffBT4T-2OD:PC71BM Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501400	21.8	149
257	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
256	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
255	Structure Evolution of Oligomer Fused-Ring Electron Acceptors toward High Efficiency of As-Cast Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600854	21.8	141

254	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
253	An easy and effective method to modulate molecular energy level of the polymer based on benzodithiophene for the application in polymer solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 2089-95	24	132
252	Quantification of nano- and mesoscale phase separation and relation to donor and acceptor quantum efficiency, $J_{sc}$ , and FF in polymer:fullerene solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 4234-41	24	123
251	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
250	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
249	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
248	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
247	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
246	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
245	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
244	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
243	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
242	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
241	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
240	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
239	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
238	Enhancing Performance of Large-Area Organic Solar Cells with Thick Film via Ternary Strategy. <i>Small</i> , <b>2017</b> , 13, 1700388	11	93
237	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

236	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
235	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
234	High-Performance Semitransparent Ternary Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800627	15.6	89
233	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
232	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	17.1	86
231	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
230	Nonfullerene acceptors based on extended fused rings flanked with benzothiadiazolymethylenemalononitrile for polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20758-20766	13	84
229	Ternary organic solar cells with enhanced open circuit voltage. <i>Nano Energy</i> , <b>2017</b> , 37, 24-31	17.1	83
228	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
227	Improved Domain Size and Purity Enables Efficient All-Small-Molecule Ternary Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703777	24	83
226	Molecular design toward efficient polymer solar cells with high polymer content. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8464-7	16.4	83
225	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
224	A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903649	24	81
223	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
222	Low Band Gap Polymer Solar Cells With Minimal Voltage Losses. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600148	21.8	80
221	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
220	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
219	Formation of an Infinite Three-Dimensional Water Network by the Hierarchic Assembly of Bilayer Water Nanotubes of Octamers. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 1385-1387	3.5	71



218	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
217	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
216	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
215	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
214	Optimized Alloy-Parallel Morphology of Ternary Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502456	21.8	70
213	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
212	Synthesis of Dimethyl Carbonate from Urea and Methanol over ZnO. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 7596-7599	3.9	70
211	Enhanced $\pi$ -Interactions of Nonfullerene Acceptors by Volatilizable Solid Additives in Efficient Polymer Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900477	24	69
210	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
209	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
208	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
207	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
206	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
205	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
204	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
203	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
202	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
201	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

200	Vertical Stratification Engineering for Organic Bulk-Heterojunction Devices. <i>ACS Nano</i> , <b>2018</b> , 12, 4440-4452	15.7	56
199	Effect of Fluorination on Molecular Orientation of Conjugated Polymers in High Performance Field-Effect Transistors. <i>Macromolecules</i> , <b>2016</b> , 49, 6431-6438	5.5	55
198	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
197	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
196	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
195	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
194	Inverted all-polymer solar cells based on a quinoxalinethiophene/naphthalene-diimide polymer blend improved by annealing. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3835-3843	13	51
193	Large-Area, Semitransparent, and Flexible All-Polymer Photodetectors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805570	15.6	50
192	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
191	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
190	Ternary Organic Solar Cells with Minimum Voltage Losses. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700390	21.8	49
189	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
188	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
187	Efficient Quaternary Organic Solar Cells with Parallel-Alloy Morphology. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806804	15.6	47
186	Hierarchical Morphology Stability under Multiple Stresses in Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 447-455	20.1	47
185	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
184	Efficient fullerene-free organic solar cells based on fused-ring oligomer molecules. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1486-1494	13	45
183	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



182	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
181	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
180	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
179	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
178	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
177	Competition between morphological attributes in the thermal annealing and additive processing of polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 5023	7.1	42
176	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
175	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
174	Enhancing the Photovoltaic Performance via Vertical Phase Distribution Optimization in Small Molecule:PC71BM Blends. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701548	21.8	40
173	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
172	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
171	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
170	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
169	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
168	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
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161	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
160	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
159	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
158	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
157	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
156	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
155	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
154	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
153	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
152	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
151	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
150	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
149	Enhancing the power conversion efficiency of polymer solar cells to 9.26% by a synergistic effect of fluoro and carboxylate substitution. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 8097-8104	13	34
148	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
147	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

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145	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
144	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
143	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
142	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
141	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
140	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
139	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
138	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
137	High-Performance Mid-Bandgap Fused-Pyrene Electron Acceptor. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6484-6490	6.4	31
136	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
135	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
134	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
133	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
132	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
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130	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
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126	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
125	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
124	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
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122	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
121	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
120	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
119	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
118	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
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112	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
111	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

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109	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
108	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
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105	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
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101	The Impact of Device Polarity on the Performance of Polymer Fullerene Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800550	21.8	22
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98	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
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90	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
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88	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
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86	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
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82	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
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60	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
59	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
58	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
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51	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
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47	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
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38	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
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31	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
30	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
29	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
28	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
27	Making weak dopants strong. <i>Nature Materials</i> , <b>2019</b> , 18, 1269-1270	27	5
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