

Feng Liu

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.

309
papers

26,058
citations

87
h-index

153
g-index

314
ext. papers

28,698
ext. citations

13.3
avg, IF

7.24
L-index

#	Paper	IF	Citations
309	Simple thiazole-centered oligothiophene donor enables 15.4% efficiency all small molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 3009-3017	13	7
308	Design of Near-Infrared Nonfullerene Acceptor with Ultralow Nonradiative Voltage Loss for High-Performance Semitransparent Ternary Organic Solar Cells.. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	13
307	Decoupling Complex Multi-Length-Scale Morphology in Non-Fullerene Photovoltaics with Nitrogen K-Edge Resonant Soft X-Ray Scattering. <i>Advanced Materials</i> , 2021 , e2107316	24	2
306	Morphology Evolution Induced by Sequential Annealing Enabling Enhanced Efficiency in All-Small Molecule Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4234-4241	6.1	4
305	Synthesis and Application of Asymmetry Diphenylketone Photoinitiators. <i>ChemistrySelect</i> , 2021 , 6, 4292-4297	4.97	0
304	Organic Solar Cells with 18% Efficiency Enabled by an Alloy Acceptor: A Two-in-One Strategy. <i>Advanced Materials</i> , 2021 , 33, e2100830	24	136
303	Probing morphology and chemistry in complex soft materials with resonant soft x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	2
302	Ternary organic solar cells with 16.88% efficiency enabled by a twisted perylene diimide derivative to enhance the open-circuit voltage. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3826-3834	7.1	10
301	Highly efficient Co centers functionalized by nitrogen-doped carbon for the chemical fixation of CO.. <i>RSC Advances</i> , 2020 , 10, 42408-42412	3.7	2
300	Preparation of non-fullerene acceptors with a multi-asymmetric configuration in a one-pot reaction for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 17229-17236	7.1	15
299	Tailoring the molecular geometry of polyfluoride perylene diimide acceptors towards efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8224-8233	7.1	13
298	Synthesis and application of new S-benzoheterocycle thiobenzoates photoinitiators. <i>Research on Chemical Intermediates</i> , 2020 , 46, 3717-3726	2.8	0
297	Bimolecular crystal instability and morphology of bulk heterojunction blends in organic and perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11695-11703	7.1	1
296	Fibril Network Strategy Enables High-Performance Semitransparent Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2002181	15.6	61
295	Optimized active layer morphology toward efficient and polymer batch insensitive organic solar cells. <i>Nature Communications</i> , 2020 , 11, 2855	17.4	131
294	Tuning the molecular geometry and packing mode of non-fullerene acceptors by altering the bridge atoms towards efficient organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2462-2471	7.8	9
293	Enhanced efficiency and stability of nonfullerene ternary polymer solar cells based on a spontaneously assembled active layer: the role of a high mobility small molecular electron acceptor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6196-6202	7.1	16

292	A naphthodithiophene-based nonfullerene acceptor for high-performance polymer solar cells with a small energy loss. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6513-6520	7.1	10
291	A novel wide-bandgap small molecule donor for high efficiency all-small-molecule organic solar cells with small non-radiative energy losses. <i>Energy and Environmental Science</i> , 2020 , 13, 1309-1317	35.4	64
290	Efficient modulation of end groups for the asymmetric small molecule acceptors enabling organic solar cells with over 15% efficiency. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5927-5935	13	23
289	Polymer interface engineering enabling high-performance perovskite solar cells with improved fill factors of over 82%. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5467-5475	7.1	16
288	Modification on the Indacenodithieno[3,2-b]thiophene Core to Achieve Higher Current and Reduced Energy Loss for Nonfullerene Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 1297-1307	9.6	29
287	In situ supramolecular polymerization-enhanced self-assembly of polymer vesicles for highly efficient photothermal therapy. <i>Nature Communications</i> , 2020 , 11, 1724	17.4	54
286	Isomerizing thieno[3,4-b]thiophene-based near-infrared non-fullerene acceptors towards efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4357-4364	7.1	9
285	Organic Polymer Nanoparticles with Primary Ammonium Salt as Potent Antibacterial Nanomaterials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21254-21262	9.5	16
284	Subtle Molecular Tailoring Induces Significant Morphology Optimization Enabling over 16% Efficiency Organic Solar Cells with Efficient Charge Generation. <i>Advanced Materials</i> , 2020 , 32, e1906324 ²⁴	24	203
283	Efficient all-polymer solar cells based on a narrow-bandgap polymer acceptor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16180-16187	7.1	9
282	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. <i>Energy and Environmental Science</i> , 2020 , 13, 5017-5027	35.4	117
281	Approaching 16% Efficiency in All-Small-Molecule Organic Solar Cells Based on Ternary Strategy with a Highly Crystalline Acceptor. <i>Joule</i> , 2020 , 4, 2223-2236	27.8	93
280	Random terpolymer based on thiophene-thiazolothiazole unit enabling efficient non-fullerene organic solar cells. <i>Nature Communications</i> , 2020 , 11, 4612	17.4	119
279	A perylene diimide-containing acceptor enables high fill factor in organic solar cells. <i>Chemical Communications</i> , 2020 , 56, 11433-11436	5.8	13
278	PCE11-based polymer solar cells with high efficiency over 13% achieved by room-temperature processing. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8661-8668	13	9
277	Quaternary Solar Cells with 12.5% Efficiency Enabled with Non-Fullerene and Fullerene Acceptor Guests to Improve Open Circuit Voltage and Film Morphology. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1900353	4.8	6
276	Revealing the Critical Role of the HOMO Alignment on Maximizing Current Extraction and Suppressing Energy Loss in Organic Solar Cells. <i>iScience</i> , 2019 , 19, 883-893	6.1	42
275	A generic green solvent concept boosting the power conversion efficiency of all-polymer solar cells to 11%. <i>Energy and Environmental Science</i> , 2019 , 12, 157-163	35.4	219

274	Panchromatic Ternary Organic Solar Cells with Porphyrin Dimers and Absorption-Complementary Benzodithiophene-based Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6283-6291	9.5	34
273	Green solvent-processed efficient non-fullerene organic solar cells enabled by low-bandgap copolymer donors with EDOT side chains. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 716-726	13	31
272	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. <i>Nature Communications</i> , 2019 , 10, 519	17.4	153
271	Perovskite Solar Cells Processed by Solution Nanotechnology 2019 , 119-174		
270	Over 12% Efficiency Nonfullerene All-Small-Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. <i>Advanced Materials</i> , 2019 , 31, e1807842	24	228
269	High-Performance Polymer Solar Cells Achieved by Introducing Side-Chain Heteroatom on Small-Molecule Electron Acceptor. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800393	4.8	29
268	Modulating Structure Ordering via Side-Chain Engineering of Thieno[3,4]thiophene-Based Electron Acceptors for Efficient Organic Solar Cells with Reduced Energy Losses. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35193-35200	9.5	5
267	Enhancing phase separation with a conformation-locked nonfullerene acceptor for over 14.4% efficiency solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13279-13286	7.1	17
266	A1-A2 Type Wide Bandgap Polymers for High-Performance Polymer Solar Cells: Energy Loss and Morphology. <i>Solar Rrl</i> , 2019 , 3, 1800291	7.1	15
265	Efficient Ternary Organic Solar Cells Enabled by the Integration of Nonfullerene and Fullerene Acceptors with a Broad Composition Tolerance. <i>Advanced Functional Materials</i> , 2019 , 29, 1807006	15.6	70
264	Steric Engineering of Alkylthiolation Side Chains to Finely Tune Miscibility in Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1802686	21.8	42
263	Molecular Engineering of Copper Phthalocyanines: A Strategy in Developing Dopant-Free Hole-Transporting Materials for Efficient and Ambient-Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803287	21.8	105
262	Nonhalogen Solvent-Processed Asymmetric Wide-Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. <i>Advanced Functional Materials</i> , 2018 , 28, 1706517	15.6	57
261	Orthogonally Aligned Block Copolymer Line Patterns on Minimal Topographic Patterns. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8324-8332	9.5	11
260	Regulation of excitation transitions by molecular design endowing full-color-tunable emissions with unexpected high quantum yields for bioimaging application. <i>Science China Chemistry</i> , 2018 , 61, 4184-426	7.9	1
259	Energy-effectively printed all-polymer solar cells exceeding 8.61% efficiency. <i>Nano Energy</i> , 2018 , 46, 428-435	17.1	42
258	Side-chain modification of polyethylene glycol on conjugated polymers for ternary blend all-polymer solar cells with efficiency up to 9.27%. <i>Science China Chemistry</i> , 2018 , 61, 427-436	7.9	36
257	Dithienopicenocarbazole-Based Acceptors for Efficient Organic Solar Cells with Optoelectronic Response Over 1000 nm and an Extremely Low Energy Loss. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2054-2057	16.4	322

256	Morphology Characterization of Bulk Heterojunction Solar Cells. <i>Small Methods</i> , 2018 , 2, 1700229	12.8	71
255	Conformation Locking on Fused-Ring Electron Acceptor for High-Performance Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1705095	15.6	88
254	Terthieno[3,2-b]Thiophene (6T) Based Low Bandgap Fused-Ring Electron Acceptor for Highly Efficient Solar Cells with a High Short-Circuit Current Density and Low Open-Circuit Voltage Loss. <i>Advanced Energy Materials</i> , 2018 , 8, 1702831	21.8	82
253	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. <i>Advanced Energy Materials</i> , 2018 , 8, 1701942	21.8	81
252	Developing High-Performance Electron-Rich Unit End-Capped Wide Bandgap Oligomeric Donor by Weak Electron-Deficient Central Core Strategy. <i>Solar Rrl</i> , 2018 , 2, 1700212	7.1	11
251	Two Thieno[3,2-b]thiophene-Based Small Molecules as Bifunctional Photoactive Materials for Organic Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1700179	7.1	10
250	An Unfused-Core-Based Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. <i>Advanced Materials</i> , 2018 , 30, 1705208	24	272
249	Systematic investigation of self-organization behavior in supramolecular π -conjugated polymer for multi-color electroluminescence. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1535-1542	7.1	18
248	Fine-Tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54. <i>Advanced Materials</i> , 2018 , 30, 1706124	24	232
247	Synergistic effect of fluorination on both donor and acceptor materials for high performance non-fullerene polymer solar cells with 13.5% efficiency. <i>Science China Chemistry</i> , 2018 , 61, 531-537	7.9	302
246	Side-Chain Optimization of Phthalimide-Bithiophene Copolymers for Efficient All-Polymer Solar Cells with Large Fill Factors. <i>Asian Journal of Organic Chemistry</i> , 2018 , 7, 2239-2247	3	3
245	Donor-Acceptor-Acceptor π Molecules for Vacuum-Deposited Organic Photovoltaics with Efficiency Exceeding 9%. <i>Advanced Energy Materials</i> , 2018 , 8, 1703603	21.8	27
244	A universal nonfullerene electron acceptor matching with different band-gap polymer donors for high-performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6874-6881	13	26
243	An Electron Acceptor with Broad Visible-NIR Absorption and Unique Solid State Packing for As-Cast High Performance Binary Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802324	15.6	99
242	Improved Efficiency of Polymer Solar Cells by Modifying the Side Chain of Wide-Band Gap Conjugated Polymers Containing Pyrrolo[3,4-f]benzotriazole-5,7(6 H)-dione Moiety. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22495-22503	9.5	19
241	Efficient and thermally stable all-polymer solar cells based on a fluorinated wide-bandgap polymer donor with high crystallinity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16403-16411	13	23
240	Guiding kinetic trajectories between jammed and unjammed states in 2D colloidal nanocrystal-polymer assemblies with zwitterionic ligands. <i>Science Advances</i> , 2018 , 4, eaap8045	14.3	18
239	Ternary non-fullerene polymer solar cells with 13.51% efficiency and a record-high fill factor of 78.13%. <i>Energy and Environmental Science</i> , 2018 , 11, 3392-3399	35.4	122

238	Efficient Organic Solar Cells with Extremely High Open-Circuit Voltages and Low Voltage Losses by Suppressing Nonradiative Recombination Losses. <i>Advanced Energy Materials</i> , 2018 , 8, 1801699	21.8	97
237	A low-bandgap dimeric porphyrin molecule for 10% efficiency solar cells with small photon energy loss. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18469-18478	13	29
236	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , 2018 , 30, 5429-5434	9.6	158
235	A Highly Efficient Non-Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fine-Tuned Hole-Transporting Layer. <i>Advanced Materials</i> , 2018 , 30, e1801801	24	299
234	Ternary polymer solar cells based-on two polymer donors with similar HOMO levels and an organic acceptor with absorption extending to 850 nm. <i>Organic Electronics</i> , 2018 , 62, 89-94	3.5	9
233	Aligned and Graded Type-II Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800185	21.8	184
232	Subtle Side-Chain Engineering of Random Terpolymers for High-Performance Organic Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 3294-3300	9.6	50
231	High-Performance Green Solvent Processed Ternary Blended All-Polymer Solar Cells Enabled by Complementary Absorption and Improved Morphology. <i>Solar Rrl</i> , 2018 , 2, 1800196	7.1	21
230	Designing an asymmetrical isomer to promote the LUMO energy level and molecular packing of a non-fullerene acceptor for polymer solar cells with 12.6% efficiency. <i>Chemical Science</i> , 2018 , 9, 8142-8149	8.4	56
229	High-efficiency quaternary polymer solar cells enabled with binary fullerene additives to reduce nonfullerene acceptor optical band gap and improve carriers transport. <i>Science China Chemistry</i> , 2018 , 61, 1609-1618	7.9	25
228	Morphology Control Enables Efficient Ternary Organic Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1803045	11	197
227	Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. <i>ACS Energy Letters</i> , 2018 , 3, 2086-2093	20.1	180
226	Branched 2-Ethylhexyl Substituted Indacenodithieno[3,2-b]Thiophene Core Enabling Wide-Bandgap Small Molecule for Fullerene-Based Organic Solar Cells with 9.15% Efficiency: Effect of Length and Position of Fused Polycyclic Aromatic Units. <i>Solar Rrl</i> , 2018 , 2, 1800108	7.1	8
225	Enhancing the Performance of Organic Solar Cells by Hierarchically Supramolecular Self-Assembly of Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , 2018 , 30, 4307-4312	9.6	95
224	High-Performance As-Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. <i>Advanced Materials</i> , 2018 , 30, 1704546	24	210
223	A green route to a novel hyperbranched electrolyte interlayer for nonfullerene polymer solar cells with over 11% efficiency. <i>Chemical Communications</i> , 2018 , 54, 563-566	5.8	30
222	Improved photocurrent and efficiency of non-fullerene organic solar cells despite higher charge recombination. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 957-962	13	13
221	Fine-Tuning the Energy Levels of a Nonfullerene Small-Molecule Acceptor to Achieve a High Short-Circuit Current and a Power Conversion Efficiency over 12% in Organic Solar Cells. <i>Advanced Materials</i> , 2018 , 30, 1704904	24	190

220	Highly oriented two-dimensional formamidinium lead iodide perovskites with a small bandgap of 1.51 eV. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 121-128	7.8	72
219	Overcoming the morphological and efficiency limit in all-polymer solar cells by designing conjugated random copolymers containing a naphtho[1,2-c:5,6-c']bis([1,2,5]thiadiazole)] moiety. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23295-23300	13	9
218	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24814-24822	13	14
217	Highly oriented and ordered microstructures in block copolymer films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 1369-1375	2.6	3
216	Near-Infrared Ternary Tandem Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1804416	24	50
215	Fine-tuning of the chemical structure of photoactive materials for highly efficient organic photovoltaics. <i>Nature Energy</i> , 2018 , 3, 1051-1058	62.3	235
214	Phenylene-bridged perylenediimide-porphyrin acceptors for non-fullerene organic solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2616-2624	5.8	20
213	A Simple, Small-Bandgap Porphyrin-Based Conjugated Polymer for Application in Organic Electronics. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800546	4.8	7
212	High-efficiency small-molecule ternary solar cells with a hierarchical morphology enabled by synergizing fullerene and non-fullerene acceptors. <i>Nature Energy</i> , 2018 , 3, 952-959	62.3	453
211	Effect of Side Groups on the Photovoltaic Performance Based on Porphyrin-Perylene Bisimide Electron Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32454-32461	9.5	15
210	Optimized Fibril Network Morphology by Precise Side-Chain Engineering to Achieve High-Performance Bulk-Heterojunction Organic Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1707353	24	226
209	Nonfullerene Polymer Solar Cells Based on a Main-Chain Twisted Low-Bandgap Acceptor with Power Conversion Efficiency of 13.2%. <i>ACS Energy Letters</i> , 2018 , 3, 1499-1507	20.1	98
208	Asymmetrical Ladder-Type Donor-Induced Polar Small Molecule Acceptor to Promote Fill Factors Approaching 77% for High-Performance Nonfullerene Polymer Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1800052	24	199
207	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8934-8943	16.4	171
206	Short-axis substitution approach on ladder-type benzodithiophene-based electron acceptor toward highly efficient organic solar cells. <i>Science China Chemistry</i> , 2018 , 61, 1405-1412	7.9	14
205	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801214	21.8	40
204	Applying the heteroatom effect of chalcogen for high-performance small-molecule solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3425-3433	13	13
203	High-Performance Organic Field-Effect Transistors Fabricated Based on a Novel Ternary EConjugated Copolymer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7315-7321	9.5	18

202	1,3-Bis(thieno[3,4-b]thiophen-6-yl)-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione-Based Small-Molecule Donor for Efficient Solution-Processed Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6213-6219	9.5	19
201	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602215	21.8	86
200	Effects of alkyl chains on intermolecular packing and device performance in small molecule based organic solar cells. <i>Dyes and Pigments</i> , 2017 , 141, 262-268	4.6	9
199	Vinazene end-capped acceptor-donor-acceptor type small molecule for solution-processed organic solar cells. <i>Organic Electronics</i> , 2017 , 44, 11-19	3.5	3
198	Fine-tuning solid state packing and significantly improving photovoltaic performance of conjugated polymers through side chain engineering via random polymerization. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5585-5593	13	14
197	A Novel Thiophene-Fused Ending Group Enabling an Excellent Small Molecule Acceptor for High-Performance Fullerene-Free Polymer Solar Cells with 11.8% Efficiency. <i>Solar Rrl</i> , 2017 , 1, 1700044	7.1	187
196	Low band-gap conjugated polymer based on diketopyrrolopyrrole units and its application in organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10416-10423	13	21
195	Achieving High-Performance Ternary Organic Solar Cells through Tuning Acceptor Alloy. <i>Advanced Materials</i> , 2017 , 29, 1603154	24	149
194	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. <i>Nature Photonics</i> , 2017 , 11, 85-90	33.9	458
193	Enhancing Performances of Solution-Processed Inverted Ternary Small-Molecule Organic Solar Cells: Manipulating the Host-Guest Donors and Acceptor Interaction. <i>Solar Rrl</i> , 2017 , 1, 1600003	7.1	14
192	Efficient and 1,8-diiodooctane-free ternary organic solar cells fabricated via nanoscale morphology tuning using small-molecule dye additive. <i>Nano Research</i> , 2017 , 10, 3765-3774	10	18
191	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [Pbl] cage nanoparticles. <i>Nature Communications</i> , 2017 , 8, 15688	17.4	147
190	Fabrication of compact and stable perovskite films with optimized precursor composition in the fast-growing procedure. <i>Science China Materials</i> , 2017 , 60, 608-616	7.1	11
189	Small-Molecule Solar Cells with Simultaneously Enhanced Short-Circuit Current and Fill Factor to Achieve 11% Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1700616	24	79
188	Applying Thieryl Side Chains and Different Bridge to Aromatic Side-Chain Substituted Indacenodithiophene-Based Small Molecule Donors for High-Performance Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19998-20009	9.5	9
187	Small Molecules with Asymmetric 4-Alkyl-8-alkoxybenzo[1,2-b:4,5-b']dithiophene as the Central Unit for High-Performance Solar Cells with High Fill Factors. <i>Chemistry of Materials</i> , 2017 , 29, 3694-3703	9.6	22
186	Small-Molecule Acceptor Based on the Heptacyclic Benzodi(cyclopentadithiophene) Unit for Highly Efficient Nonfullerene Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4929-4934	16.4	404
185	Efficient Semitransparent Solar Cells with High NIR Responsiveness Enabled by a Small-Bandgap Electron Acceptor. <i>Advanced Materials</i> , 2017 , 29, 1606574	24	224

184	Head-to-Head Linkage Containing Dialkoxybithiophene-Based Polymeric Semiconductors for Polymer Solar Cells with Large Open-Circuit Voltages. <i>Macromolecules</i> , 2017 , 50, 137-150	5.5	27
183	26 mA cm ⁻² Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. <i>Science Bulletin</i> , 2017 , 62, 1494-1496	10.6	316
182	Insertion of double bond bridges of A ₂ B acceptors for high performance near-infrared polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22588-22597	13	50
181	Donor-Acceptor Conjugated Macrocycles: Synthesis and Host-Guest Coassembly with Fullerene toward Photovoltaic Application. <i>ACS Nano</i> , 2017 , 11, 11701-11713	16.7	44
180	A Twisted Thieno[3,4-b]thiophene-Based Electron Acceptor Featuring a 14- π -Electron Indenoindene Core for High-Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2017 , 29, 1704510 ²⁴		177
179	Regioisomeric Non-Fullerene Acceptors Containing Fluorobenzo[c][1,2,5]thiadiazole Unit for Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37087-37093	9.5	29
178	Macroscopically ordered hexagonal arrays by directed self-assembly of block copolymers with minimal topographic patterns. <i>Nanoscale</i> , 2017 , 9, 14888-14896	7.7	13
177	An A-D-A Type Small-Molecule Electron Acceptor with End-Extended Conjugation for High Performance Organic Solar Cells. <i>Chemistry of Materials</i> , 2017 , 29, 7908-7917	9.6	119
176	Isomeric Effects of Solution Processed Ladder-Type Non-Fullerene Electron Acceptors. <i>Solar Rrl</i> , 2017 , 1, 1700107	7.1	41
175	Design of a Highly Crystalline Low-Band Gap Fused-Ring Electron Acceptor for High-Efficiency Solar Cells with Low Energy Loss. <i>Chemistry of Materials</i> , 2017 , 29, 8369-8376	9.6	156
174	Self-Regulated Nanoparticle Assembly at Liquid/Liquid Interfaces: A Route to Adaptive Structuring of Liquids. <i>Langmuir</i> , 2017 , 33, 7994-8001	4	38
173	High efficiency organic solar cells based on amorphous electron-donating polymer and modified fullerene acceptor. <i>Nano Energy</i> , 2017 , 39, 478-488	17.1	46
172	Circumventing UV Light Induced Nanomorphology Disorder to Achieve Long Lifetime PTB7-Th:PCBM Based Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1701201	21.8	54
171	Low band gap conjugated polymers combining siloxane-terminated side chains and alkyl side chains: side-chain engineering achieving a large active layer processing window for PCE > 10% in polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17619-17631	13	91
170	Printing Fabrication of Bulk Heterojunction Solar Cells and In Situ Morphology Characterization. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	1
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168	High Performing Ternary Solar Cells through F ₂ ster Resonance Energy Transfer between Nonfullerene Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26928-26936	9.5	34
167	Hereditary Character of Alkyl-Chain Length Effect on π Phase Conformation from Polydialkylfluorenes to Bulky Polydiarylfluorenes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19087-19096 ³⁸		28

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156	3D Structural Model of High-Performance Non-Fullerene Polymer Solar Cells as Revealed by High-Resolution AFM. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24451-24455	9.5	1
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146	11% Efficient Ternary Organic Solar Cells with High Composition Tolerance via Integrated Near-IR Sensitization and Interface Engineering. <i>Advanced Materials</i> , 2016 , 28, 8184-8190	24	227
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