

# Feng Liu

## List of Publications by Citations

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309  
papers

26,058  
citations

87  
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314  
ext. papers

28,698  
ext. citations

13.3  
avg, IF

7.24  
L-index

#	Paper	IF	Citations
309	Single-junction polymer solar cells with high efficiency and photovoltage. <i>Nature Photonics</i> , <b>2015</b> , 9, 174-179	33.9	1495
308	A series of simple oligomer-like small molecules based on oligothiophenes for solution-processed solar cells with high efficiency. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3886-93	16.4	722
307	Small-molecule solar cells with efficiency over 9%. <i>Nature Photonics</i> , <b>2015</b> , 9, 35-41	33.9	701
306	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. <i>Nature Photonics</i> , <b>2017</b> , 11, 85-90	33.9	458
305	High-efficiency small-molecule ternary solar cells with a hierarchical morphology enabled by synergizing fullerene and non-fullerene acceptors. <i>Nature Energy</i> , <b>2018</b> , 3, 952-959	62.3	453
304	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> , <b>2017</b> , 139, 4929-4934	16.4	404
303	Fluoro-Substituted n-Type Conjugated Polymers for Additive-Free All-Polymer Bulk Heterojunction Solar Cells with High Power Conversion Efficiency of 6.71. <i>Advanced Materials</i> , <b>2015</b> , 27, 3310-7	24	400
302	Deep absorbing porphyrin small molecule for high-performance organic solar cells with very low energy losses. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7282-5	16.4	396
301	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> , <b>2018</b> , 140, 2054-2057	16.4	322
300	26 mA cm <sup>-2</sup> Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. <i>Science Bulletin</i> , <b>2017</b> , 62, 1494-1496	10.6	316
299	High Efficiency Near-Infrared and Semitransparent Non-Fullerene Acceptor Organic Photovoltaic Cells. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17114-17119	16.4	312
298	Kinetics of Ion Transport in Perovskite Active Layers and Its Implications for Active Layer Stability. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13130-7	16.4	308
297	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> , <b>2018</b> , 61, 531-537	7.9	302
296	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> , <b>2018</b> , 30, e1801801	24	299
295	Efficient polymer solar cells based on benzothiadiazole and alkylphenyl substituted benzodithiophene with a power conversion efficiency over 8%. <i>Advanced Materials</i> , <b>2013</b> , 25, 4944-9	24	298
294	All-Polymer Solar Cells Based on a Conjugated Polymer Containing Siloxane-Functionalized Side Chains with Efficiency over 10. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703906	24	294
293	Improving the ordering and photovoltaic properties by extending $\pi$ -conjugated area of electron-donating units in polymers with D-A structure. <i>Advanced Materials</i> , <b>2012</b> , 24, 3383-9	24	289

292	On the morphology of polymer-based photovoltaics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 1018-1044	2.6	285
291	An Unfused-Core-Based Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705208	24	272
290	A Thieno[3,4-b]thiophene-Based Non-fullerene Electron Acceptor for High-Performance Bulk-Heterojunction Organic Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15523-15526	16.4	269
289	Bulk heterojunction photovoltaic active layers via bilayer interdiffusion. <i>Nano Letters</i> , <b>2011</b> , 11, 2071-8	11.5	264
288	Characterization of the morphology of solution-processed bulk heterojunction organic photovoltaics. <i>Progress in Polymer Science</i> , <b>2013</b> , 38, 1990-2052	29.6	237
287	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
286	Ternary Organic Solar Cells Based on Two Compatible Nonfullerene Acceptors with Power Conversion Efficiency >10. <i>Advanced Materials</i> , <b>2016</b> , 28, 10008-10015	24	234
285	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> , <b>2018</b> , 30, 1706124	24	232
284	Over 12% Efficiency Nonfullerene All-Small-Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807842	24	228
283	11% Efficient Ternary Organic Solar Cells with High Composition Tolerance via Integrated Near-IR Sensitization and Interface Engineering. <i>Advanced Materials</i> , <b>2016</b> , 28, 8184-8190	24	227
282	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
281	Efficient Semitransparent Solar Cells with High NIR Responsiveness Enabled by a Small-Bandgap Electron Acceptor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606574	24	224
280	High-Efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. <i>Advanced Materials</i> , <b>2016</b> , 28, 8288-8295	24	224
279	A generic green solvent concept boosting the power conversion efficiency of all-polymer solar cells to 11%. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 157-163	35.4	219
278	Multi-Length-Scale Morphologies Driven by Mixed Additives in Porphyrin-Based Organic Photovoltaics. <i>Advanced Materials</i> , <b>2016</b> , 28, 4727-33	24	219
277	High-Performance As-Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704546	24	210
276	A Novel Naphtho[1,2-c:5,6-c']Bis([1,2,5]Thiadiazole)-Based Narrow-Bandgap Conjugated Polymer with Power Conversion Efficiency Over 10. <i>Advanced Materials</i> , <b>2016</b> , 28, 9811-9818	24	207
275	The Crystallization of PEDOT:PSS Polymeric Electrodes Probed In Situ during Printing. <i>Advanced Materials</i> , <b>2015</b> , 27, 3391-7	24	203

274	Subtle Molecular Tailoring Induces Significant Morphology Optimization Enabling over 16% Efficiency Organic Solar Cells with Efficient Charge Generation. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906324 <sup>24</sup>	24	203
273	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> , <b>2018</b> , 30, e1800052	24	199
272	Morphology Control Enables Efficient Ternary Organic Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803045	24	197
271	Efficient polymer solar cells based on a low bandgap semi-crystalline DPP polymer-PCBM blends. <i>Advanced Materials</i> , <b>2012</b> , 24, 3947-51	24	193
270	Polymer semiconductor crystals. <i>Materials Today</i> , <b>2010</b> , 13, 14-24	21.8	191
269	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> , <b>2018</b> , 30, 1704904	24	190
268	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> , <b>2017</b> , 1, 1700044	7.1	187
267	Understanding the Morphology of PTB7:PCBM Blends in Organic Photovoltaics. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301377	21.8	187
266	Aligned and Graded Type-II Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800185	21.8	184
265	Organic single-crystalline p-n junction nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11580-4	16.4	181
264	Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2086-2093	20.1	180
263	A Twisted Thieno[3,4-b]thiophene-Based Electron Acceptor Featuring a 14- $\pi$ Electron Indenoindene Core for High-Performance Organic Photovoltaics. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704510 <sup>24</sup>	24	177
262	Series of Multifluorine Substituted Oligomers for Organic Solar Cells with Efficiency over 9% and Fill Factor of 0.77 by Combination Thermal and Solvent Vapor Annealing. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 7687-97	16.4	176
261	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> , <b>2018</b> , 140, 8934-8943	16.4	171
260	Charge-Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 10718-10724	24	170
259	A high mobility conjugated polymer based on dithienothiophene and diketopyrrolopyrrole for organic photovoltaics. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 6857	35.4	164
258	Semi-crystalline random conjugated copolymers with panchromatic absorption for highly efficient polymer solar cells. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3301	35.4	160
257	High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18%. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3508-3514	15.6	159

256	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5429-5434	9.6	158
255	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> , <b>2017</b> , 29, 8369-8376	9.6	156
254	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. <i>Nature Communications</i> , <b>2019</b> , 10, 519	17.4	153
253	Achieving High-Performance Ternary Organic Solar Cells through Tuning Acceptor Alloy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603154	24	149
252	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [Pbl] cage nanoparticles. <i>Nature Communications</i> , <b>2017</b> , 8, 15688	17.4	147
251	Subtle Balance Between Length Scale of Phase Separation and Domain Purification in Small-Molecule Bulk-Heterojunction Blends under Solvent Vapor Treatment. <i>Advanced Materials</i> , <b>2015</b> , 27, 6296-302	24	141
250	Fluorene-substituted pyrenes/Novel pyrene derivatives as emitters in nondoped blue OLEDs. <i>Organic Electronics</i> , <b>2006</b> , 7, 155-162	3.5	137
249	Organic Solar Cells with 18% Efficiency Enabled by an Alloy Acceptor: A Two-in-One Strategy. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100830	24	136
248	Optimized active layer morphology toward efficient and polymer batch insensitive organic solar cells. <i>Nature Communications</i> , <b>2020</b> , 11, 2855	17.4	131
247	Effect of Fluorine Content in Thienothiophene-Benzodithiophene Copolymers on the Morphology and Performance of Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3009-3017	9.6	128
246	Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5954-5966	15.6	123
245	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> , <b>2018</b> , 11, 3392-3399	35.4	122
244	Unexpected one-pot method to synthesize spiro[fluorene-9,9'-xanthene] building blocks for blue-light-emitting materials. <i>Organic Letters</i> , <b>2006</b> , 8, 2787-90	6.2	122
243	An A-D-A Type Small-Molecule Electron Acceptor with End-Extended Conjugation for High Performance Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7908-7917	9.6	119
242	Random terpolymer based on thiophene-thiazolothiazole unit enabling efficient non-fullerene organic solar cells. <i>Nature Communications</i> , <b>2020</b> , 11, 4612	17.4	119
241	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> , <b>2020</b> , 13, 5017-5027	35.4	117
240	Relating chemical structure to device performance via morphology control in diketopyrrolopyrrole-based low band gap polymers. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 19248-59	16.4	109
239	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> , <b>2019</b> , 9, 1803287	21.8	105

238	Mesoporous Pbl <sub>2</sub> Scaffold for High-Performance Planar Heterojunction Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501890	21.8	102
237	Fast printing and in situ morphology observation of organic photovoltaics using slot-die coating. <i>Advanced Materials</i> , <b>2015</b> , 27, 886-91	24	99
236	Comparison of Two D <sub>A</sub> Type Polymers with Each Being Fluorinated on D and A Unit for High Performance Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 120-125	15.6	99
235	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> , <b>2018</b> , 28, 1802324	15.6	99
234	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> , <b>2018</b> , 3, 1499-1507	20.1	98
233	A simple perylene diimide derivative with a highly twisted geometry as an electron acceptor for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10659-10665	13	97
232	Efficient Organic Solar Cells with Extremely High Open-Circuit Voltages and Low Voltage Losses by Suppressing Nonradiative Recombination Losses. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801699	21.8	97
231	A simple small molecule as an acceptor for fullerene-free organic solar cells with efficiency near 8%. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10409-10413	13	96
230	Enhancing the Performance of Organic Solar Cells by Hierarchically Supramolecular Self-Assembly of Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4307-4312	9.6	95
229	A Rational Molecular Design of Phase Polydiarylfuorenes: Synthesis, Morphology, and Organic Lasers. <i>Macromolecules</i> , <b>2014</b> , 47, 1001-1007	5.5	93
228	Approaching 16% Efficiency in All-Small-Molecule Organic Solar Cells Based on Ternary Strategy with a Highly Crystalline Acceptor. <i>Joule</i> , <b>2020</b> , 4, 2223-2236	27.8	93
227	NDI-Based Small Molecule as Promising Nonfullerene Acceptor for Solution-Processed Organic Photovoltaics. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500195	21.8	91
226	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> , <b>2017</b> , 5, 17619-17631	13	91
225	Efficient 9-alkylphenyl-9-pyrenylfluorene substituted pyrene derivatives with improved hole injection for blue light-emitting diodes. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 4074		91
224	Toward Practical Useful Polymers for Highly Efficient Solar Cells via a Random Copolymer Approach. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10782-5	16.4	90
223	Conformation Locking on Fused-Ring Electron Acceptor for High-Performance Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705095	15.6	88
222	Dithienosilole-Based Small-Molecule Organic Solar Cells with an Efficiency over 8%: Investigation of the Relationship between the Molecular Structure and Photovoltaic Performance. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6077-6084	9.6	87
221	Facile synthesis of spirocyclic aromatic hydrocarbon derivatives based on o-halobiaryl route and domino reaction for deep-blue organic semiconductors. <i>Organic Letters</i> , <b>2009</b> , 11, 3850-3	6.2	87

220	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602215	21.8	86
219	Molecular weight dependence of the morphology in P3HT:PCBM solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19876-87	9.5	85
218	Approaching Intra- and Interchain Charge Transport of Conjugated Polymers Facilely by Topochemical Polymerized Single Crystals. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701251	24	84
217	Synthesis, electronic structure, molecular packing/morphology evolution, and carrier mobilities of pure oligo-/poly(alkylthiophenes). <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 844-54	16.4	84
216	Regioregular Bis-Pyridal[2,1,3]thiadiazole-Based Semiconducting Polymer for High-Performance Ambipolar Transistors. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17735-17738	16.4	83
215	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> , <b>2018</b> , 8, 1702831	21.8	82
214	Conjugated polymeric zwitterions as efficient interlayers in organic solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 6868-73	24	82
213	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701942	21.8	81
212	Head-to-Head Linkage Containing Bithiophene-Based Polymeric Semiconductors for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 9969-9977	24	81
211	Tuning Voc for high performance organic ternary solar cells with non-fullerene acceptor alloys. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19697-19702	13	80
210	Small-Molecule Solar Cells with Simultaneously Enhanced Short-Circuit Current and Fill Factor to Achieve 11% Efficiency. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700616	24	79
209	Recent Progress in Polymer White Light-Emitting Materials and Devices. <i>Macromolecular Chemistry and Physics</i> , <b>2013</b> , 214, 314-342	2.6	79
208	Synthesis and Characterization of Pyrene-Centered Starburst Oligofluorenes. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 659-664	4.8	79
207	Supramolecular $\pi$ -Stacking Pyrene-Functioned Fluorenes: Toward Efficient Solution-Processable Small Molecule Blue and White Organic Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4641-4647	3.8	78
206	Facile synthesis of complicated 9,9-diarylfuorenes based on BF <sub>3</sub> .Et <sub>2</sub> O-mediated Friedel-Crafts reaction. <i>Organic Letters</i> , <b>2006</b> , 8, 3701-4	6.2	76
205	Medium Bandgap Conjugated Polymer for High Performance Polymer Solar Cells Exceeding 9% Power Conversion Efficiency. <i>Advanced Materials</i> , <b>2015</b> , 27, 7462-8	24	73
204	Following the Morphology Formation In Situ in Printed Active Layers for Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501580	21.8	72
203	High-Performance Non-Fullerene Organic Solar Cells Based on a Selenium-Containing Polymer Donor and a Twisted Perylene Bisimide Acceptor. <i>Advanced Science</i> , <b>2016</b> , 3, 1600117	13.6	72

202	Highly oriented two-dimensional formamidinium lead iodide perovskites with a small bandgap of 1.51 eV. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 121-128	7.8	72
201	Morphology Characterization of Bulk Heterojunction Solar Cells. <i>Small Methods</i> , <b>2018</b> , 2, 1700229	12.8	71
200	Resonant soft X-ray scattering for polymer materials. <i>European Polymer Journal</i> , <b>2016</b> , 81, 555-568	5.2	71
199	Efficient Ternary Organic Solar Cells Enabled by the Integration of Nonfullerene and Fullerene Acceptors with a Broad Composition Tolerance. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807006	15.6	70
198	Fullerene-free small molecule organic solar cells with a high open circuit voltage of 1.15 V. <i>Chemical Communications</i> , <b>2016</b> , 52, 465-8	5.8	69
197	A non-fullerene electron acceptor modified by thiophene-2-carbonitrile for solution-processed organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3777-3783	13	67
196	Tuning the optoelectronic properties of 4,4'-C <sub>6</sub> H <sub>4</sub> -N,N'-dicarbazole-biphenyl through heteroatom linkage: new host materials for phosphorescent organic light-emitting diodes. <i>Organic Letters</i> , <b>2010</b> , 12, 3438-41	6.2	67
195	A low band-gap polymer based on unsubstituted benzo[1,2-b:4,5-b']dithiophene for high performance organic photovoltaics. <i>Chemical Communications</i> , <b>2012</b> , 48, 6933-5	5.8	66
194	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> , <b>2020</b> , 13, 1309-1317	35.4	64
193	Small Molecules Based on Alkyl/Alkylthio-thieno[3,2-b]thiophene-Substituted Benzo[1,2-b:4,5-b']dithiophene for Solution-Processed Solar Cells with High Performance. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8414-8423	9.6	63
192	Fibril Network Strategy Enables High-Performance Semitransparent Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002181	15.6	61
191	Manipulating Backbone Structure to Enhance Low Band Gap Polymer Photovoltaic Performance. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 930-937	21.8	61
190	Structured Liquids with pH-Triggered Reconfigurability. <i>Advanced Materials</i> , <b>2016</b> , 28, 6612-8	24	61
189	A Highly Crystalline and Wide-Bandgap Polydiarylfluorene with EPhase Conformation toward Stable Electroluminescence and Dual Amplified Spontaneous Emission. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 21648-55	9.5	59
188	New insight of molecular interaction, crystallization and phase separation in higher performance small molecular solar cells via solvent vapor annealing. <i>Nano Energy</i> , <b>2016</b> , 30, 639-648	17.1	58
187	Synthesis of pyridine-capped diketopyrrolopyrrole and its use as a building block of low band-gap polymers for efficient polymer solar cells. <i>Chemical Communications</i> , <b>2013</b> , 49, 8495-7	5.8	58
186	Donor-Acceptor Copolymers Based on Thermally Cleavable Indigo, Isoindigo, and DPP Units: Synthesis, Field Effect Transistors, and Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9038-51	9.5	57
185	Nonhalogen Solvent-Processed Asymmetric Wide-Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706517	15.6	57



184	Triisopropylsilylethynyl-functionalized dibenzo[def,mno]chrysene: a solution-processed small molecule for bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 4266-4268		57
183	The role of additive in diketopyrrolopyrrole-based small molecular bulk heterojunction solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 6519-25	24	57
182	High-Performance Polymer Solar Cells Based on a Wide-Bandgap Polymer Containing Pyrrolo[3,4-]benzotriazole-5,7-dione with a Power Conversion Efficiency of 8.63. <i>Advanced Science</i> , <b>2016</b> , 3, 1600032	13.6	57
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170	Subtle Side-Chain Engineering of Random Terpolymers for High-Performance Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3294-3300	9.6	50
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47	Effects of alkyl chains on intermolecular packing and device performance in small molecule based organic solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 141, 262-268	4.6	9
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