

Feng Liu

List of Publications by Year in descending order

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314
papers

30,970
citations

2795

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all docs

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docs citations

314
times ranked

15503
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-junction polymer solar cells with high efficiency and photovoltage. <i>Nature Photonics</i> , 2015, 9, 174-179.	15.6	1,595
2	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> , 2015, 137, 3886-3893.	6.6	788
3	Small-molecule solar cells with efficiency over 9%. <i>Nature Photonics</i> , 2015, 9, 35-41.	15.6	769
4	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.	19.8	558
5	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. <i>Nature Photonics</i> , 2017, 11, 85-90.	15.6	510
6	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.	6.6	459
7	Deep Absorbing Porphyrin Small Molecule for High-Performance Organic Solar Cells with Very Low Energy Losses. <i>Journal of the American Chemical Society</i> , 2015, 137, 7282-7285.	6.6	436
8	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> , 2015, 27, 3310-3317.	11.1	421
9	Kinetics of Ion Transport in Perovskite Active Layers and Its Implications for Active Layer Stability. <i>Journal of the American Chemical Society</i> , 2015, 137, 13130-13137.	6.6	394
10	High Efficiency Near-Infrared and Semitransparent Non-Fullerene Acceptor Organic Photovoltaic Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 17114-17119.	6.6	384
11	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.	11.1	380
12	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.	6.6	369
13	26 mA cm^{-2} Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. <i>Science Bulletin</i> , 2017, 62, 1494-1496.	4.3	368
14	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.	11.1	360
15	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.	4.2	342
16	All-Polymer Solar Cells Based on a Conjugated Polymer Containing Siloxane-Functionalized Side Chains with Efficiency over 10%. <i>Advanced Materials</i> , 2017, 29, 1703906.	11.1	332
17	Organic Solar Cells with 18% Efficiency Enabled by an Alloy Acceptor: A Two-in-One Strategy. <i>Advanced Materials</i> , 2021, 33, e2100830.	11.1	323
18	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.	11.1	312

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19	Efficient Polymer Solar Cells Based on Benzothiadiazole and Alkylphenyl Substituted Benzodithiophene with a Power Conversion Efficiency over 8%. <i>Advanced Materials</i> , 2013, 25, 4944-4949.	11.1	306
20	Improving the Ordering and Photovoltaic Properties by Extending Conjugated Area of Electron-Donating Units in Polymers with A Structure. <i>Advanced Materials</i> , 2012, 24, 3383-3389.	11.1	298
21	On the morphology of polymer-based photovoltaics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1018-1044.	2.4	297
22	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.	15.6	287
23	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> , 2016, 138, 15523-15526.	6.6	286
24	Fine-tuning of the chemical structure of photoactive materials for highly efficient organic photovoltaics. <i>Nature Energy</i> , 2018, 3, 1051-1058.	19.8	281
25	Bulk Heterojunction Photovoltaic Active Layers via Bilayer Interdiffusion. <i>Nano Letters</i> , 2011, 11, 2071-2078.	4.5	274
26	Over 12% Efficiency Nonfullerene All-Small-Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. <i>Advanced Materials</i> , 2019, 31, e1807842.	11.1	272
27	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.	11.1	271
28	The Crystallization of PEDOT:PSS Polymeric Electrodes Probed In Situ during Printing. <i>Advanced Materials</i> , 2015, 27, 3391-3397.	11.1	263
29	Ternary Organic Solar Cells Based on Two Compatible Nonfullerene Acceptors with Power Conversion Efficiency >10%. <i>Advanced Materials</i> , 2016, 28, 10008-10015.	11.1	254
30	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.	11.1	253
31	Characterization of the morphology of solution-processed bulk heterojunction organic photovoltaics. <i>Progress in Polymer Science</i> , 2013, 38, 1990-2052.	11.8	252
32	Efficient Semitransparent Solar Cells with High NIR Responsiveness Enabled by a Small-Bandgap Electron Acceptor. <i>Advanced Materials</i> , 2017, 29, 1606574.	11.1	252
33	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.	11.1	252
34	Multilength-Scale Morphologies Driven by Mixed Additives in Porphyrin-Based Organic Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 4727-4733.	11.1	251
35	High-Efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. <i>Advanced Materials</i> , 2016, 28, 8288-8295.	11.1	247
36	Aligned and Graded Type-II Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800185.	10.2	247

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37	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.	11.1	246
38	Morphology Control Enables Efficient Ternary Organic Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1803045.	11.1	243
39	Optimized active layer morphology toward efficient and polymer batch insensitive organic solar cells. <i>Nature Communications</i> , 2020, 11, 2855.	5.8	237
40	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.	11.1	233
41	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. <i>Nature Communications</i> , 2019, 10, 519.	5.8	231
42	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> , 2016, 28, 9811-9818.	11.1	230
43	Random terpolymer based on thiophene-thiazolothiazole unit enabling efficient non-fullerene organic solar cells. <i>Nature Communications</i> , 2020, 11, 4612.	5.8	225
44	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.	8.8	224
45	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.	6.6	218
46	Charge-Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 10718-10724.	11.1	214
47	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.	11.1	214
48	Polymer semiconductor crystals. <i>Materials Today</i> , 2010, 13, 14-24.	8.3	210
49	Efficient Polymer Solar Cells Based on a Low Bandgap Semi-Crystalline DPP Polymer-PCBM Blends. <i>Advanced Materials</i> , 2012, 24, 3947-3951.	11.1	209
50	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> , 2016, 138, 7687-7697.	6.6	209
51	Organic Single-Crystalline p-n Junction Nanoribbons. <i>Journal of the American Chemical Society</i> , 2010, 132, 11580-11584.	6.6	208
52	Understanding the Morphology of PTB7:PCBM Blends in Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2014, 4, 1301377.	10.2	203
53	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.	3.1	198
54	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.	11.1	196

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55	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , 2018, 30, 5429-5434.	3.2	194
56	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [PbI ₆] ⁴⁻ cage nanoparticles. <i>Nature Communications</i> , 2017, 8, 15688.	5.8	191
57	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.	3.2	180
58	High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18%. <i>Advanced Functional Materials</i> , 2016, 26, 3508-3514.	7.8	176
59	A high mobility conjugated polymer based on dithienothiophene and diketopyrrolopyrrole for organic photovoltaics. <i>Energy and Environmental Science</i> , 2012, 5, 6857.	15.6	171
60	Achieving High-Performance Ternary Organic Solar Cells through Tuning Acceptor Alloy. <i>Advanced Materials</i> , 2017, 29, 1603154.	11.1	171
61	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.	15.6	170
62	Semi-crystalline random conjugated copolymers with panchromatic absorption for highly efficient polymer solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3301.	15.6	165
63	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> , 2015, 27, 6296-6302.	11.1	159
64	Unexpected One-Pot Method to Synthesize Spiro[fluorene-9,9'-xanthene] Building Blocks for Blue-Light-Emitting Materials. <i>Organic Letters</i> , 2006, 8, 2787-2790.	2.4	153
65	Progress and prospects of the morphology of non-fullerene acceptor based high-efficiency organic solar cells. <i>Energy and Environmental Science</i> , 0, , .	15.6	149
66	Fluorene-substituted pyrenes—Novel pyrene derivatives as emitters in nondoped blue OLEDs. <i>Organic Electronics</i> , 2006, 7, 155-162.	1.4	148
67	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.	15.6	143
68	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.	11.7	142
69	Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 5954-5966.	7.8	140
70	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.	3.2	139
71	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.	10.2	138
72	Effect of Fluorine Content in Thienothiophene-Benzodithiophene Copolymers on the Morphology and Performance of Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 3009-3017.	3.2	136

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73	Mesoporous Pbl ₂ Scaffold for High-Performance Planar Heterojunction Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1501890.	10.2	124
74	In-situ supramolecular polymerization-enhanced self-assembly of polymer vesicles for highly efficient photothermal therapy. <i>Nature Communications</i> , 2020, 11, 1724.	5.8	122
75	Relating Chemical Structure to Device Performance via Morphology Control in Diketopyrrolopyrrole-Based Low Band Gap Polymers. <i>Journal of the American Chemical Society</i> , 2013, 135, 19248-19259.	6.6	121
76	Conformation Locking on Fused-Ring Electron Acceptor for High-Performance Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1705095.	7.8	120
77	Fast Printing and In Situ Morphology Observation of Organic Photovoltaics Using Slot-Die Coating. <i>Advanced Materials</i> , 2015, 27, 886-891.	11.1	117
78	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.	10.2	117
79	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.	5.2	116
80	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.	7.8	116
81	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.	3.2	116
82	A Rational Molecular Design of π -Phase Polydiarylflorenes: Synthesis, Morphology, and Organic Lasers. <i>Macromolecules</i> , 2014, 47, 1001-1007.	2.2	115
83	Regioregular Bis-Pyridal[2,1,3]thiadiazole-Based Semiconducting Polymer for High-Performance Ambipolar Transistors. <i>Journal of the American Chemical Society</i> , 2017, 139, 17735-17738.	6.6	115
84	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.	8.8	113
85	Fibril Network Strategy Enables High-Performance Semitransparent Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2002181.	7.8	113
86	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> , 2016, 4, 10659-10665.	5.2	110
87	Comparison of Two D ^A Type Polymers with Each Being Fluorinated on D and A Unit for High Performance Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 120-125.	7.8	108
88	Approaching Intra- and Interchain Charge Transport of Conjugated Polymers Facilely by Topochemical Polymerized Single Crystals. <i>Advanced Materials</i> , 2017, 29, 1701251.	11.1	107
89	Molecular Weight Dependence of the Morphology in P3HT:PCBM Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19876-19887.	4.0	106
90	A simple small molecule as an acceptor for fullerene-free organic solar cells with efficiency near 8%. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10409-10413.	5.2	104

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91	Toward Practical Useful Polymers for Highly Efficient Solar Cells via a Random Copolymer Approach. <i>Journal of the American Chemical Society</i> , 2016, 138, 10782-10785.	6.6	101
92	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. <i>Advanced Energy Materials</i> , 2018, 8, 1701942.	10.2	99
93	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.	15.6	99
94	Morphology Characterization of Bulk Heterojunction Solar Cells. <i>Small Methods</i> , 2018, 2, 1700229.	4.6	98
95	Efficient 9-alkylphenyl-9-pyrenylfluorene substituted pyrene derivatives with improved hole injection for blue light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2006, 16, 4074.	6.7	95
96	Synthesis, Electronic Structure, Molecular Packing/Morphology Evolution, and Carrier Mobilities of Pure Oligo-/Poly(alkylthiophenes). <i>Journal of the American Chemical Society</i> , 2013, 135, 844-854.	6.6	95
97	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.	3.2	95
98	NDI-Based Small Molecule as Promising Nonfullerene Acceptor for Solution-Processed Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2015, 5, 1500195.	10.2	94
99	Tuning V_{oc} for high performance organic ternary solar cells with non-fullerene acceptor alloys. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19697-19702.	5.2	94
100	Head-to-Head Linkage Containing Bithiophene-Based Polymeric Semiconductors for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2016, 28, 9969-9977.	11.1	93
101	Terthieno[3,2- <i>b</i>]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.	10.2	93
102	Facile Synthesis of Spirocyclic Aromatic Hydrocarbon Derivatives Based on <i>o</i> -Halobiaryl Route and Domino Reaction for Deep-Blue Organic Semiconductors. <i>Organic Letters</i> , 2009, 11, 3850-3853.	2.4	92
103	Conjugated Polymeric Zwitterions as Efficient Interlayers in Organic Solar Cells. <i>Advanced Materials</i> , 2013, 25, 6868-6873.	11.1	92
104	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> , 2015, 27, 6077-6084.	3.2	92
105	Structured Liquids with pH-Triggered Reconfigurability. <i>Advanced Materials</i> , 2016, 28, 6612-6618.	11.1	92
106	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. <i>Advanced Energy Materials</i> , 2017, 7, 1602215.	10.2	92
107	Small-Molecule Solar Cells with Simultaneously Enhanced Short-Circuit Current and Fill Factor to Achieve 11% Efficiency. <i>Advanced Materials</i> , 2017, 29, 1700616.	11.1	87
108	Facile Synthesis of Complicated 9,9-Diarylfluorenes Based on BF ₃ ·Et ₂ O-Mediated Friedel-Crafts Reaction. <i>Organic Letters</i> , 2006, 8, 3701-3704.	2.4	86

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109	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> , 2022, 61, .	7.2	85
110	Recent Progress in Polymer White Light-Emitting Materials and Devices. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 314-342.	1.1	84
111	Synthesis and Characterization of Pyrene-Centered Starburst Oligofluorenes. <i>Macromolecular Rapid Communications</i> , 2008, 29, 659-664.	2.0	83
112	Supramolecular π - π Stacking Pyrene-Functioned Fluorenes: Toward Efficient Solution-Processable Small Molecule Blue and White Organic Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4641-4647.	1.5	83
113	Medium Bandgap Conjugated Polymer for High Performance Polymer Solar Cells Exceeding 9% Power Conversion Efficiency. <i>Advanced Materials</i> , 2015, 27, 7462-7468.	11.1	82
114	Following the Morphology Formation In Situ in Printed Active Layers for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1501580.	10.2	82
115	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.	7.8	81
116	Resonant soft X-ray scattering for polymer materials. <i>European Polymer Journal</i> , 2016, 81, 555-568.	2.6	79
117	Fullerene-free small molecule organic solar cells with a high open circuit voltage of 1.15 V. <i>Chemical Communications</i> , 2016, 52, 465-468.	2.2	79
118	New insight of molecular interaction, crystallization and phase separation in higher performance small molecular solar cells via solvent vapor annealing. <i>Nano Energy</i> , 2016, 30, 639-648.	8.2	77
119	A non-fullerene electron acceptor modified by thiophene-2-carbonitrile for solution-processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3777-3783.	5.2	77
120	High-Performance Non-Fullerene Organic Solar Cells Based on a Selenium-Containing Polymer Donor and a Twisted Perylene Bisimide Acceptor. <i>Advanced Science</i> , 2016, 3, 1600117.	5.6	76
121	Tuning the Optoelectronic Properties of 4,4'-Dicarbazole-biphenyl through Heteroatom Linkage: New Host Materials for Phosphorescent Organic Light-Emitting Diodes. <i>Organic Letters</i> , 2010, 12, 3438-3441.	2.4	71
122	Small Molecules Based on Alkyl/Alkylthio-thieno[3,2- <i>b</i>]thiophene-Substituted Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]dithiophene for Solution-Processed Solar Cells with High Performance. <i>Chemistry of Materials</i> , 2015, 27, 8414-8423.	3.2	71
123	Donor-Acceptor Copolymers Based on Thermally Cleavable Indigo, Isoindigo, and DPP Units: Synthesis, Field Effect Transistors, and Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9038-9051.	4.0	69
124	High-Performance Polymer Solar Cells Based on a Wide-Bandgap Polymer Containing Pyrrolo[3,4- <i>b</i>]benzotriazole-5,7-dione with a Power Conversion Efficiency of 8.63%. <i>Advanced Science</i> , 2016, 3, 1600032.	5.6	69
125	A Highly Crystalline and Wide-Bandgap Polydiarylfuorene with β -Phase Conformation toward Stable Electroluminescence and Dual Amplified Spontaneous Emission. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21648-21655.	4.0	68
126	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.	1.9	68

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127	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> , 2013, 49, 8495.	2.2	67
128	Circumventing UV Light Induced Nanomorphology Disorder to Achieve Long Lifetime PTB7 θ :PCBM Based Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1701201.	10.2	67
129	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.	3.7	67
130	A low band-gap polymer based on unsubstituted benzo[1,2-b:4,5-b \prime]dithiophene for high performance organic photovoltaics. <i>Chemical Communications</i> , 2012, 48, 6933.	2.2	66
131	Topological Arrangement of Fluorenyl-Substituted Carbazole Triads and Starbursts: Synthesis and Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6961-6967.	1.5	65
132	Nonhalogen Solvent θ -Processed Asymmetric Wide θ -Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. <i>Advanced Functional Materials</i> , 2018, 28, 1706517.	7.8	65
133	Near θ -Infrared Ternary Tandem Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1804416.	11.1	65
134	Donor θ -Acceptor Conjugated Macrocycles: Synthesis and Host θ -Guest Coassembly with Fullerene toward Photovoltaic Application. <i>ACS Nano</i> , 2017, 11, 11701-11713.	7.3	64
135	Subtle Side-Chain Engineering of Random Terpolymers for High-Performance Organic Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 3294-3300.	3.2	64
136	Triisopropylsilylethynyl-functionalized dibenzo[def,mno]chrysene: a solution-processed small molecule for bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 4266-4268.	6.7	62
137	Manipulating Backbone Structure to Enhance Low Band Gap Polymer Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2013, 3, 930-937.	10.2	62
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