

# Long Ye

## 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.

185  
papers

15,586  
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61  
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123  
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201  
ext. papers

17,959  
ext. citations

13.4  
avg, IF

7.08  
L-index

#	Paper	IF	Citations
185	Energy-Level Modulation of Small-Molecule Electron Acceptors to Achieve over 12% Efficiency in Polymer Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 9423-9429	24	1191
184	Molecular Design of Benzodithiophene-Based Organic Photovoltaic Materials. <i>Chemical Reviews</i> , <b>2016</b> , 116, 7397-457	68.1	824
183	Molecular design toward highly efficient photovoltaic polymers based on two-dimensional conjugated benzodithiophene. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 1595-603	24.3	624
182	A Wide Band Gap Polymer with a Deep Highest Occupied Molecular Orbital Level Enables 14.2% Efficiency in Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7159-7167	16.4	579
181	Design, Application, and Morphology Study of a New Photovoltaic Polymer with Strong Aggregation in Solution State. <i>Macromolecules</i> , <b>2012</b> , 45, 9611-9617	5.5	555
180	Highly Efficient 2D-Conjugated Benzodithiophene-Based Photovoltaic Polymer with Linear Alkylthio Side Chain. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3603-3605	9.6	509
179	Alkyl Chain Tuning of Small Molecule Acceptors for Efficient Organic Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 3020-3033	37.8	504
178	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. <i>Nature Materials</i> , <b>2018</b> , 17, 253-260	27	409
177	A potential perylene diimide dimer-based acceptor material for highly efficient solution-processed non-fullerene organic solar cells with 4.03% efficiency. <i>Advanced Materials</i> , <b>2013</b> , 25, 5791-7	24	407
176	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Open-Circuit Voltage. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700254	24	314
175	Realizing over 10% efficiency in polymer solar cell by device optimization. <i>Science China Chemistry</i> , <b>2015</b> , 58, 248-256	7.9	302
174	A High-Efficiency Organic Solar Cell Enabled by the Strong Intramolecular Electron Push-Pull Effect of the Nonfullerene Acceptor. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707170	24	295
173	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
172	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5085-5094	16.4	270
171	Breaking the 10% Efficiency Barrier in Organic Photovoltaics: Morphology and Device Optimization of Well-Known PBDDTTT Polymers. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502529	21.8	267
170	Bay-linked perylene bisimides as promising non-fullerene acceptors for organic solar cells. <i>Chemical Communications</i> , <b>2014</b> , 50, 1024-6	5.8	262
169	Side Chain Selection for Designing Highly Efficient Photovoltaic Polymers with 2D-Conjugated Structure. <i>Macromolecules</i> , <b>2014</b> , 47, 4653-4659	5.5	240

168	Manipulating aggregation and molecular orientation in all-polymer photovoltaic cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 6046-54	24	232
167	Binary additives synergistically boost the efficiency of all-polymer solar cells up to 3.45%. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1351-1356	35.4	209
166	High-Efficiency Nonfullerene Organic Solar Cells: Critical Factors that Affect Complex Multi-Length Scale Morphology and Device Performance. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602000	21.8	205
165	Design of a New Small-Molecule Electron Acceptor Enables Efficient Polymer Solar Cells with High Fill Factor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704051	24	200
164	Remove the Residual Additives toward Enhanced Efficiency with Higher Reproducibility in Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 14920-14928	3.8	199
163	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
162	Green-solvent-processable organic solar cells. <i>Materials Today</i> , <b>2016</b> , 19, 533-543	21.8	193
161	Controlling Blend Morphology for Ultrahigh Current Density in Nonfullerene Acceptor-Based Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 669-676	20.1	187
160	Miscibility-Function Relations in Organic Solar Cells: Significance of Optimal Miscibility in Relation to Percolation. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703058	21.8	175
159	Significant Influence of the Methoxyl Substitution Position on Optoelectronic Properties and Molecular Packing of Small-Molecule Electron Acceptors for Photovoltaic Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700183	21.8	155
158	Application of Two-Dimensional Conjugated Benzo[1,2-b:4,5-b']dithiophene in Quinoxaline-Based Photovoltaic Polymers. <i>Macromolecules</i> , <b>2012</b> , 45, 3032-3038	5.5	152
157	Green-Solvent-Processed All-Polymer Solar Cells Containing a Perylene Diimide-Based Acceptor with an Efficiency over 6.5%. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501991	21.8	148
156	PBDB-T and its derivatives: A family of polymer donors enables over 17% efficiency in organic photovoltaics. <i>Materials Today</i> , <b>2020</b> , 35, 115-130	21.8	141
155	High-Efficiency All-Small-Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilyl-Thienyl Conjugated Side Chains. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706361	24	130
154	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 443-458	27.8	128
153	Highly efficient tandem polymer solar cells with a photovoltaic response in the visible light range. <i>Advanced Materials</i> , <b>2015</b> , 27, 1189-94	24	127
152	Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705485	24	127
151	A Printable Organic Cathode Interlayer Enables over 13% Efficiency for 1-cm <sup>2</sup> Organic Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 227-239	27.8	127

150	Conjugated and Nonconjugated Substitution Effect on Photovoltaic Properties of Benzodifuran-Based Photovoltaic Polymers. <i>Macromolecules</i> , <b>2012</b> , 45, 6923-6929	5.5	125
149	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
148	A Narrow-Bandgap n-Type Polymer with an Acceptor-Acceptor Backbone Enabling Efficient All-Polymer Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004183	24	114
147	Quantitative Morphology-Performance Correlations in Organic Solar Cells: Insights from Soft X-Ray Scattering. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700084	21.8	105
146	Enhanced Photovoltaic Performance of Diketopyrrolopyrrole (DPP)-Based Polymers with Extended $\pi$ -Conjugation. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9550-9557	3.8	100
145	Enhanced Efficiency in Fullerene-Free Polymer Solar Cell by Incorporating Fine-designed Donor and Acceptor Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9274-80	9.5	97
144	Highly Efficient Photovoltaic Polymers Based on Benzodithiophene and Quinoxaline with Deeper HOMO Levels. <i>Macromolecules</i> , <b>2015</b> , 48, 5172-5178	5.5	96
143	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6 % Efficiency Organic Solar Cells with Enhanced Fill Factor. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2322-2329	16.4	94
142	Molecular design of a non-fullerene acceptor enables a P3HT-based organic solar cell with 9.46% efficiency. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2864-2869	35.4	93
141	A universal halogen-free solvent system for highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12723-12729	13	90
140	Optimization Requirements of Efficient Polythiophene:Nonfullerene Organic Solar Cells. <i>Joule</i> , <b>2020</b> , 4, 1278-1295	27.8	90
139	Rational Strategy to Stabilize an Unstable High-Efficiency Binary Nonfullerene Organic Solar Cells with a Third Component. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900376	21.8	88
138	Precise Manipulation of Multilength Scale Morphology and Its Influence on Eco-Friendly Printed All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702016	15.6	85
137	Effect of Alkylsilyl Side-Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702324	21.8	85
136	High-Efficiency Polymer Solar Cells Enabled by Environment-Friendly Single-Solvent Processing. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502177	21.8	83
135	A multi-objective optimization-based layer-by-layer blade-coating approach for organic solar cells: rational control of vertical stratification for high performance. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3118-3132	35.4	83
134	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
133	High Performance Organic Solar Cells Processed by Blade Coating in Air from a Benign Food Additive Solution. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7451-7458	9.6	83

132	Sequential Deposition of Organic Films with Eco-Compatible Solvents Improves Performance and Enables Over 12%-Efficiency Nonfullerene Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808153	24	80
131	Manipulation of Domain Purity and Orientational Ordering in High Performance All-Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6178-6185	9.6	78
130	Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9004-9010	16.4	74
129	Selecting a donor polymer for realizing favorable morphology in efficient non-fullerene acceptor-based solar cells. <i>Small</i> , <b>2014</b> , 10, 4658-63	11	72
128	Ultrathin polyaniline-based buffer layer for highly efficient polymer solar cells with wide applicability. <i>Scientific Reports</i> , <b>2014</b> , 4, 6570	4.9	65
127	2D-Conjugated Benzodithiophene-Based Polymer Acceptor: Design, Synthesis, Nanomorphology, and Photovoltaic Performance. <i>Macromolecules</i> , <b>2015</b> , 48, 7156-7163	5.5	64
126	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604603	24	63
125	Long-Lived, Non-Geminate, Radiative Recombination of Photogenerated Charges in a Polymer/Small-Molecule Acceptor Photovoltaic Blend. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9996-10008	16.4	61
124	Molecular energy level modulation by changing the position of electron-donating side groups. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5700		59
123	Application of Bis-PCBM in Polymer Solar Cells with Improved Voltage. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 25360-25366	3.8	56
122	Molecular Engineering and Morphology Control of Polythiophene:Nonfullerene Acceptor Blends for High-Performance Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002572	21.8	54
121	Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901823	21.8	53
120	Control of Mesoscale Morphology and Photovoltaic Performance in Diketopyrrolopyrrole-Based Small Band Gap Terpolymers. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601138	21.8	53
119	The Importance of Entanglements in Optimizing the Mechanical and Electrical Performance of All-Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5124-5132	9.6	52
118	Highly Efficient, Stable, and Ductile Ternary Nonfullerene Organic Solar Cells from a Two-Donor Polymer Blend. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808279	24	50
117	Modulation of Morphological, Mechanical, and Photovoltaic Properties of Ternary Organic Photovoltaic Blends for Optimum Operation. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003506	21.8	50
116	Enhanced efficiency of polymer photovoltaic cells via the incorporation of a water-soluble naphthalene diimide derivative as a cathode interlayer. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9565-9571	7.1	49
115	Influence of Donor Polymer on the Molecular Ordering of Small Molecular Acceptors in Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701674	21.8	46

114	Molecular Design and Application of a Photovoltaic Polymer with Improved Optical Properties and Molecular Energy Levels. <i>Macromolecules</i> , <b>2015</b> , 48, 3493-3499	5.5	46
113	Miscibility-Controlled Phase Separation in Double-Cable Conjugated Polymers for Single-Component Organic Solar Cells with Efficiencies over 8 . <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21683-21692	16.4	45
112	Isomery-Dependent Miscibility Enables High-Performance All-Small-Molecule Solar Cells. <i>Small</i> , <b>2019</b> , 15, e1804271	11	43
111	Impact of Molecular Weight on the Mechanical and Electrical Properties of a High-Mobility Diketopyrrolopyrrole-Based Conjugated Polymer. <i>Macromolecules</i> , <b>2020</b> , 53, 4490-4500	5.5	42
110	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
109	Benzodifuran-alt-thienothiophene based low band gap copolymers: substituent effects on their molecular energy levels and photovoltaic properties. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 3047	4.9	42
108	Dialkylthio Substitution: An Effective Method to Modulate the Molecular Energy Levels of 2D-BDT Photovoltaic Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 3575-83	9.5	41
107	Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PycNTAZ. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4886-4893	13	41
106	Molecular design strategies for voltage modulation in highly efficient polymer solar cells. <i>Polymer International</i> , <b>2015</b> , 64, 957-962	3.3	41
105	Revealing the Impact of F4-TCNQ as Additive on Morphology and Performance of High-Efficiency Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806262	15.6	41
104	Toward efficient non-fullerene polymer solar cells: Selection of donor polymers. <i>Organic Electronics</i> , <b>2015</b> , 17, 295-303	3.5	40
103	Asymmetrically noncovalently fused-ring acceptor for high-efficiency organic solar cells with reduced voltage loss and excellent thermal stability. <i>Nano Energy</i> , <b>2020</b> , 74, 104861	17.1	39
102	A regioregular conjugated polymer for high performance thick-film organic solar cells without processing additive. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10517-10525	13	38
101	A polymer design strategy toward green solvent processed efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4324-4330	13	38
100	Morphology control enables thickness-insensitive efficient nonfullerene polymer solar cells. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2057-2064	7.8	37
99	3,4-Dicyanothiophene— Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904247	21.8	35
98	Role of Polymer Segregation on the Mechanical Behavior of All-Polymer Solar Cell Active Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43886-43892	9.5	35
97	Polymer Side-Chain Variation Induces Microstructural Disparity in Nonfullerene Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6568-6577	9.6	35

96	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. <i>Science China Materials</i> , <b>2015</b> , 58, 953-960	7.1	34
95	Optimization of side chains in alkylthiophene-substituted benzo[1,2-b:4,5-b']dithiophene-based photovoltaic polymers. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 2752-2760	4.9	33
94	Significance of thermodynamic interaction parameters in guiding the optimization of polymer:nonfullerene solar cells. <i>Chemical Communications</i> , <b>2020</b> , 56, 12463-12478	5.8	33
93	Thermoplastic Elastomer Tunes Phase Structure and Promotes Stretchability of High-Efficiency Organic Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2106732	24	32
92	Investigations of the Conjugated Polymers Based on Dithienogermole (DTG) Units for Photovoltaic Applications. <i>Macromolecules</i> , <b>2014</b> , 47, 5558-5565	5.5	30
91	Toward reliable and accurate evaluation of polymer solar cells based on low band gap polymers. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 564-569	7.1	29
90	High-Performance Wide Bandgap Copolymers Using an EDOT Modified Benzodithiophene Donor Block with 10.11% Efficiency. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1602773	21.8	29
89	An Easily Accessible Cathode Buffer Layer for Achieving Multiple High Performance Polymer Photovoltaic Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 27322-27329	3.8	29
88	Understanding, quantifying, and controlling the molecular ordering of semiconducting polymers: from novices to experts and amorphous to perfect crystals. <i>Materials Horizons</i> , <b>2021</b> ,	14.4	29
87	Achieving high efficiency and well-kept ductility in ternary all-polymer organic photovoltaic blends thanks to two well miscible donors. <i>Matter</i> , <b>2022</b> ,	12.7	29
86	Supervisory and coworker support for safety: Buffers between job insecurity and safety performance of high-speed railway drivers in China. <i>Safety Science</i> , <b>2019</b> , 117, 290-298	5.8	27
85	Synergistically minimized nonradiative energy loss and optimized morphology achieved via the incorporation of small molecule donor in 17.7% efficiency ternary polymer solar cells. <i>Nano Energy</i> , <b>2021</b> , 85, 105963	17.1	27
84	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010535	15.6	26
83	Measuring Temperature-Dependent Miscibility for Polymer Solar Cell Blends: An Easily Accessible Optical Method Reveals Complex Behavior. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3943-3951	9.6	26
82	Black phosphorus nanoflakes as morphology modifier for efficient fullerene-free organic solar cells with high fill-factor and better morphological stability. <i>Nano Research</i> , <b>2019</b> , 12, 777-783	10	25
81	2D covalent organic framework thin films via interfacial self-polycondensation of an AB type monomer. <i>Chemical Communications</i> , <b>2020</b> , 56, 3253-3256	5.8	25
80	Non-fullerene acceptor organic photovoltaics with intrinsic operational lifetimes over 30 years. <i>Nature Communications</i> , <b>2021</b> , 12, 5419	17.4	25
79	Challenges and recent advances in photodiodes-based organic photodetectors. <i>Materials Today</i> , <b>2021</b> , 51, 475-475	21.8	24

78	Calculation aided miscibility manipulation enables highly efficient polythiophene:nonfullerene photovoltaic cells. <i>Science China Chemistry</i> , <b>2021</b> , 64, 478-487	7.9	24
77	Environmentally-friendly solvent processed fullerene-free organic solar cells enabled by screening halogen-free solvent additives. <i>Science China Materials</i> , <b>2017</b> , 60, 697-706	7.1	22
76	The renaissance of polythiophene organic solar cells. <i>Trends in Chemistry</i> , <b>2021</b> ,	14.8	21
75	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and High-Efficiency Semitransparent Organic Photovoltaics. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000328	7.1	21
74	Twisted-conjugated molecules as donor materials for efficient all-small-molecule organic solar cells processed with tetrahydrofuran. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23008-23018	13	21
73	Influence of the alkyl substitution position on photovoltaic properties of 2D-BDT-based conjugated polymers. <i>Science China Materials</i> , <b>2015</b> , 58, 213-222	7.1	20
72	Control of aggregated structure of photovoltaic polymers for high-efficiency solar cells. <i>Aggregate</i> , <b>2021</b> , e46	22.9	18
71	Efficient Thick-Film Polymer Solar Cells with Enhanced Fill Factors via Increased Fullerene Loading. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10794-10800	9.5	17
70	Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9089-9095	3.6	17
69	Reduced Energy Loss in Non-Fullerene Organic Solar Cells with Isomeric Donor Polymers Containing Thiazole Spacers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 753-762	9.5	17
68	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15988-15994	16.4	17
67	Carboxylate substituted pyrazine: A simple and low-cost building block for novel wide bandgap polymer donor enables 15.3% efficiency in organic solar cells. <i>Nano Energy</i> , <b>2021</b> , 82, 105679	17.1	17
66	Tuning the molar mass of P3HT via direct arylation polycondensation yields optimal interaction and high efficiency in nonfullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 19874-19885 <sup>13</sup>		17
65	Enhanced efficiency in nonfullerene organic solar cells by tuning molecular order and domain characteristics. <i>Nano Energy</i> , <b>2020</b> , 77, 105310	17.1	15
64	Efficient Organic Ternary Solar Cells Employing Narrow Band Gap Diketopyrrolopyrrole Polymers and Nonfullerene Acceptors. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7309-7317	9.6	14
63	Recent advances in the development of radiative sky cooling inspired from solar thermal harvesting. <i>Nano Energy</i> , <b>2021</b> , 81, 105611	17.1	13
62	Enhanced JSC of P3HT-based non-fullerene polymer solar cells by modulating aggregation effect of P3HT in solution state. <i>Organic Electronics</i> , <b>2019</b> , 68, 15-21	3.5	12
61	Improving the open-circuit voltage of alkylthio-substituted photovoltaic polymers via post-oxidation. <i>Organic Electronics</i> , <b>2016</b> , 28, 39-46	3.5	12



60	Identification of the histone lysine demethylase KDM4A/JMJD2A as a novel epigenetic target in M1 macrophage polarization induced by oxidized LDL. <i>Oncotarget</i> , <b>2017</b> , 8, 114442-114456	3.3	12
59	Delicate crystallinity control enables high-efficiency P3HT organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , <b>2022</b> ,	13	12
58	Advances and prospective in thermally stable nonfullerene polymer solar cells. <i>Science China Chemistry</i> , <b>2021</b> , 64, 1875	7.9	12
57	Conjugation-Curtailing of Benzodithionopyran-Cored Molecular Acceptor Enables Efficient Air-Processed Small Molecule Solar Cells. <i>Small</i> , <b>2019</b> , 15, e1902656	11	11
56	TCNQ as a volatilizable morphology modulator enables enhanced performance in non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 44-49	7.1	11
55	Miscibility-Controlled Phase Separation in Double-Cable Conjugated Polymers for Single-Component Organic Solar Cells with Efficiencies over 8 %. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21867-21876	3.6	11
54	Morphology evolution with polymer chain propagation and its impacts on device performance and stability of non-fullerene solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 556-565	13	11
53	Ternary copolymers containing 3,4-dicyanothiophene for efficient organic solar cells with reduced energy loss. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13522-13530	13	11
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51	Multi-length scale morphology of nonfullerene all-small molecule blends and its relation to device function in organic solar cells. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 137-144	7.8	10
50	Role of Secondary Thermal Relaxations in Conjugated Polymer Film Toughness. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6540-6549	9.6	10
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36	High Tg Polymer Insulator Yields Organic Photovoltaic Blends with Superior Thermal Stability at 150 oC. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2570-2578	4.9	8
35	Low-bandgap conjugated polymers based on benzodipyrrolidone with reliable unipolar electron mobility exceeding 1 cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> . <i>Science China Chemistry</i> , 2021, 64, 1219-1227	7.9	7
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33	Thermally stable poly(3-hexylthiophene): Nonfullerene solar cells with efficiency breaking 10%. <i>Aggregate</i> ,	22.9	7
32	Modulation of Building Block Size in Conjugated Polymers with D <sub>A</sub> Structure for Polymer Solar Cells. <i>Macromolecules</i> , 2019, 52, 7929-7938	5.5	6
31	Soft X-Ray Scattering Characterization of Polymer Semiconductors 2019, 427-458		6
30	Efficient As-Cast Polymer Solar Cells with High and Stabilized Fill Factor. <i>Solar Rrl</i> , 2020, 4, 2000275	7.1	6
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21	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16124-16130	3.6	3
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15	Eco-friendly solution processing of all-polymer solar cells: Recent advances and future perspective. <i>Journal of Polymer Science</i> , <b>2021</b> ,	2.4	2
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13	CHAPTER 2:New Polymer Donors for Polymer Solar Cells. <i>RSC Polymer Chemistry Series</i> , <b>2015</b> , 32-77	1.3	2
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9	Reproducibility in Time and Space-The Molecular Weight Effects of Polymeric Materials in Organic Photovoltaic Devices.. <i>Small Methods</i> , <b>2022</b> , e2101548	12.8	2
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2	Morphological Characterization and Manipulation of Organic Solar Cells <b>2022</b> , 519-554		0
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