

Lei Ying

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.

216
papers

9,376
citations

48
h-index

90
g-index

223
ext. papers

10,587
ext. citations

9.1
avg, IF

6.54
L-index

#	Paper	IF	Citations
216	Review on Y6-Based Semiconductor Materials and Their Future Development via Machine Learning. <i>Crystals</i> , 2022 , 12, 168	2.3	2
215	Efficient polyfluorene derivatives for blue light-emitting diodes enabled by tuning conjugation length of bulky chromophores. <i>Dyes and Pigments</i> , 2022 , 199, 110059	4.6	2
214	Conquering the morphology barrier of ternary all-polymer solar cells by designing random terpolymer for constructing efficient binary all-polymer solar cells. <i>Chemical Engineering Journal</i> , 2022 , 439, 135491	14.7	4
213	Suppressing non-radiative loss via a low-cost solvent additive enables high-stable all-polymer solar cells with 16.13% efficiency. <i>Chemical Engineering Journal</i> , 2022 , 136877	14.7	1
212	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
211	Enabling High Efficiency of Hydrocarbon-Solvent Processed Organic Solar Cells through Balanced Charge Generation and Non-Radiative Loss. <i>Advanced Energy Materials</i> , 2021 , 11, 2101768	21.8	18
210	Recent progress in thick-film organic photovoltaic devices: Materials, devices, and processing. <i>SusMat</i> , 2021 , 1, 4-23		18
209	Effect of alkyl side chain length on the electroluminescent performance of blue light-emitting poly(fluorene-co-dibenzothiophene-S,S-dioxide). <i>Dyes and Pigments</i> , 2021 , 187, 109139	4.6	1
208	Ternary organic photodiodes with spectral response from 300 to 1200 nm for spectrometer application. <i>Science China Materials</i> , 2021 , 64, 2430-2438	7.1	7
207	Elucidating Halogen-Assisted Self-Assembly Enhanced Mechanochromic Aggregation-Induced Emission. <i>ChemPhotoChem</i> , 2021 , 5, 626-631	3.3	2
206	Constructing a new polymer acceptor enabled non-halogenated solvent-processed all-polymer solar cell with an efficiency of 13.8. <i>Chemical Communications</i> , 2021 , 57, 935-938	5.8	20
205	Copper Thiocyanate as an Anode Interfacial Layer for Efficient Near-Infrared Organic Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1027-1034	9.5	12
204	Ultrahigh Detectivity in Spatially Separated Hole/Electron Dual Traps Based Near-Infrared Organic Phototransistor. <i>Advanced Optical Materials</i> , 2021 , 9, 2002031	8.1	11
203	Overcoming incompatibility of donors and acceptors by constructing planar heterojunction organic solar cells. <i>Nano Energy</i> , 2021 , 85, 105957	17.1	15
202	Fine Tuning Miscibility of Donor/Acceptor through Solid Additives Enables All-Polymer Solar Cells with 15.6% Efficiency. <i>Solar Rrl</i> , 2021 , 5, 2100549	7.1	8
201	13.1: Invited Paper: Molecular Design of Efficient Blue Light-Emitting Polymers based on Dibenzothiophene-S,S-dioxide. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 183-183 ^{0.5}		
200	Improving photovoltaic parameters of all-polymer solar cells through integrating two polymeric donors. <i>Science China Chemistry</i> , 2021 , 64, 2010	7.9	6

199	A universal strategy via polymerizing non-fullerene small molecule acceptors enables efficient all-polymer solar cells with >1 year excellent thermal stability. <i>Chemical Engineering Journal</i> , 2021 , 132714-7	14.7	2
198	In Vivo Bioimaging and Photodynamic Therapy Based on Two-Photon Fluorescent Conjugated Polymers Containing Dibenzothiophene-, -dioxide Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57281-57289	9.5	7
197	Highly efficient inkjet printed flexible organic light-emitting diodes with hybrid hole injection layer. <i>Organic Electronics</i> , 2020 , 85, 105822	3.5	18
196	Manipulating Film Morphology of All-Polymer Solar Cells by Incorporating Polymer Compatibilizer. <i>Solar Rrl</i> , 2020 , 4, 2000148	7.1	8
195	Tailoring Regioisomeric Structures of EConjugated Polymers Containing Monofluorinated EBridges for Highly Efficient Polymer Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2087-2094	20.1	63
194	Design and synthesis of non-fullerene acceptors based on a quinoxalineimide moiety as the central building block for organic solar cells. <i>Chemical Communications</i> , 2020 , 56, 4700-4703	5.8	12
193	Efficient Organic Solar Cell with 16.88% Efficiency Enabled by Refined Acceptor Crystallization and Morphology with Improved Charge Transfer and Transport Properties. <i>Advanced Energy Materials</i> , 2020 , 10, 1904234	21.8	252
192	14.4% efficiency all-polymer solar cell with broad absorption and low energy loss enabled by a novel polymer acceptor. <i>Nano Energy</i> , 2020 , 72, 104718	17.1	177
191	Enhanced performance of P3HT-based non-fullerene polymer solar cells by optimizing film morphology using non-halogenated solvent. <i>Organic Electronics</i> , 2020 , 82, 105701	3.5	13
190	Energy level gradient trapping based on different work functions of ZnO enhancing response and stability for lateral photodetectors. <i>Organic Electronics</i> , 2020 , 86, 105883	3.5	4
189	Design and synthesis of an amino-functionalized non-fullerene acceptor as a cathode interfacial layer for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5273-5279	7.1	9
188	Halogen-Bond-Controlled Self-Assembly of Regioisomeric Phenanthridine Derivatives into Nanowires and Nanosheets. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5665-5671	3.8	7
187	The Br ^δ halogen bond assisted self-assembly of an asymmetric molecule regulated by concentration. <i>Chemical Communications</i> , 2020 , 56, 2727-2730	5.8	9
186	Improving the Electroluminescent Performance of Blue Light-Emitting Polymers by Side-Chain Modification. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8495-8502	9.5	5
185	Efficient deep-blue light-emitting polyfluorenes based on 9,9-dimethyl-9H-thioxanthene 10,10-dioxide isomers. <i>Journal of Polymer Science</i> , 2020 , 58, 1380-1392	2.4	1
184	Improving the Performance of Blue Polymer Light-Emitting Diodes Using a Hole Injection Layer with a High Work Function and Nanotexture. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20750-20756	9.5	5
183	Rational Design of Conjugated Polymers for d-Limonene Processed All-polymer Solar Cells with Small Energy Loss. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 791-796	3.5	10
182	Polymer Pre-Aggregation Enables Optimal Morphology and High Performance in All-Polymer Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900385	7.1	25

181	Chlorinated Fused Nonacyclic Non-Fullerene Acceptor Enables Efficient Large-Area Polymer Solar Cells with High Scalability. <i>Chemistry of Materials</i> , 2020 , 32, 1022-1030	9.6	20
180	Efficient dendrimers based on naphthalene indenofluorene for two-photon fluorescent imaging in living cells and tissues. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2160-2170	7.1	5
179	Optimization of processing solvent and film morphology to achieve efficient non-fullerene polymer solar cells processed in air. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 270-275	7.1	6
178	Flexible ITO-free sky-blue polymer light-emitting diodes and printed polymer solar cells based on AgNW/PI transparent conductive electrode. <i>Flexible and Printed Electronics</i> , 2020 , 5, 014003	3.1	4
177	Near-infrared organic photoelectric materials for light-harvesting systems: Organic photovoltaics and organic photodiodes. <i>Information Materials</i> , 2020 , 2, 57-91	23.1	36
176	Achieving Efficient Thick Film All-polymer Solar Cells Using a Green Solvent Additive. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 323-331	3.5	24
175	Tailoring the side chain of imide-functional benzotriazole based polymers to achieve internal quantum efficiency approaching 100%. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23519-23525	13	3
174	A Universal Fluorinated Polymer Acceptor Enables All-Polymer Solar Cells with >15% Efficiency. <i>ACS Energy Letters</i> , 2020 , 5, 3702-3707	20.1	98
173	Efficient near-infrared anionic conjugated polyelectrolyte for photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10609-10615	7.3	2
172	Toward Efficient Tandem Organic Solar Cells: From Materials to Device Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39937-39947	9.5	11
171	High-Detectivity Non-Fullerene Organic Photodetectors Enabled by a Cross-Linkable Electron Blocking Layer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45092-45100	9.5	17
170	Ambient Processable and Stable All-Polymer Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1806747	15.6	77
169	Aggregation-Induced Multilength Scaled Morphology Enabling 11.76% Efficiency in All-Polymer Solar Cells Using Printing Fabrication. <i>Advanced Materials</i> , 2019 , 31, e1902899	24	183
168	Surpassing the 10% efficiency milestone for 1-cm all-polymer solar cells. <i>Nature Communications</i> , 2019 , 10, 4100	17.4	96
167	Optimizing Microstructure Morphology and Reducing Electronic Losses in 1 cm ² Polymer Solar Cells to Achieve Efficiency over 15%. <i>ACS Energy Letters</i> , 2019 , 4, 2466-2472	20.1	50
166	Understanding of Imine Substitution in Wide-Bandgap Polymer Donor-Induced Efficiency Enhancement in All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 8533-8542	9.6	30
165	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
164	Improving the efficiency and stability of non-fullerene polymer solar cells by using N2200 as the Additive. <i>Nano Energy</i> , 2019 , 58, 724-731	17.1	36

163	Dark Current Reduction Strategy via a Layer-By-Layer Solution Process for a High-Performance All-Polymer Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8350-8356	9.5	36
162	Efficient Non-Fullerene Organic Solar Cells Based on a Wide-Bandgap Polymer Donor Containing an Alkylthiophenyl-Substituted Benzodithiophene Moiety. <i>ChemPhysChem</i> , 2019 , 20, 2668-2673	3.2	4
161	Comprehensive Investigation and Analysis of Bulk-Heterojunction Microstructure of High-Performance PCE11:PCBM Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18555-18585	8.5	19
160	High-detectivity organic photodetectors based on a thick-film photoactive layer using a conjugated polymer containing a naphtho[1,2-c:5,6-c']bis[1,2,5]thiadiazole unit. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6070-6076	7.1	17
159	Ultrahigh photosensitive organic phototransistors by photoelectric dual control. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4725-4732	7.1	13
158	Modifying the organic/metal interface via solvent vapor annealing to enhance the performance of blue OLEDs. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4784-4790	7.1	4
157	High-Performance All-Polymer Photodetectors via a Thick Photoactive Layer Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14208-14214	9.5	27
156	Achieving over 16% efficiency for single-junction organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 746-752	7.9	723
155	Synthesis and properties of blue-light-emitting Oligo(fluorene-co-dibenzothiophene-S,S-dioxide)s. <i>Dyes and Pigments</i> , 2019 , 166, 502-514	4.6	9
154	In Situ Structure Characterization in Slot-Die-Printed All-Polymer Solar Cells with Efficiency Over 9%. <i>Solar Rrl</i> , 2019 , 3, 1900032	7.1	14
153	Improving the electroluminescence performance of blue light-emitting poly(fluorene-co-dibenzothiophene-S,S-dioxide) by tuning the intra-molecular charge transfer effects and temperature-induced orientation of the emissive layer structure. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5630-5638	7.1	7
152	Sky-blue fluorescent small-molecules with high quantum efficiency: synthesis, structures, AIE properties, and applications in solution-processed non-doped OLEDs. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3553-3559	7.1	14
151	Dual hole transport layers for blue-light-emitting PLED: Suppress the formation of exciplex towards high device performance and color purity. <i>Organic Electronics</i> , 2019 , 68, 103-107	3.5	13
150	White polymer light-emitting diodes with ultra-large color shifts for pulse-width-modulation applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10567-10573	7.1	5
149	Recent Progress in All-Polymer Solar Cells Based on Wide-Bandgap p-Type Polymers. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3109-3118	4.5	13
148	Morphology optimization via molecular weight tuning of donor polymer enables all-polymer solar cells with simultaneously improved performance and stability. <i>Nano Energy</i> , 2019 , 64, 103931	17.1	55
147	Wide bandgap poly(meta-styrene) derivatives containing pendant carbazolyl groups as hosts for efficient solution-processed organic light emitting diodes. <i>Polymer Chemistry</i> , 2019 , 10, 4449-4458	4.9	2
146	Molecular packing control enables excellent performance and mechanical property of blade-cast all-polymer solar cells. <i>Nano Energy</i> , 2019 , 59, 277-284	17.1	39

145	Highly efficient deep-blue light-emitting copolymers containing phenoxazine: enhanced device efficiency and lifetime by blending a hole transport molecule. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13859-13866	7.1	2
144	Self-Assembly Polymorphism of Regioisomeric Diketopyrrolopyrrole-Based π -Conjugated Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1185-1193	3.8	4
143	Deep-blue light-emitting polyfluorenes with asymmetrical naphthylthio-fluorene as Chromophores. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 171-182	2.5	9
142	Realizing efficient bipolar deep-blue light-emitting poly(2,7-carbazole) derivatives by suppressing intramolecular charge transfer. <i>Organic Electronics</i> , 2019 , 67, 34-42	3.5	5
141	8.0% Efficient all-polymer solar cells based on novel starburst polymer acceptors. <i>Science China Chemistry</i> , 2018 , 61, 576-583	7.9	23
140	Phosphonium conjugated polyelectrolytes as interface materials for efficient polymer solar cells. <i>Organic Electronics</i> , 2018 , 57, 151-157	3.5	12
139	Synthesis and characterization of highly efficient solution-processable orange Ir(III) complexes for phosphorescent OLED applications. <i>Organic Electronics</i> , 2018 , 57, 178-185	3.5	9
138	Alcohol-Soluble Electron-Transport Materials for Fully Solution-Processed Green PhOLEDs. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1335-1341	4.5	10
137	Novel efficient blue and bluish-green light-emitting polymers with delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2690-2695	7.1	57
136	An efficient blue emitter based on a naphthalene indenofluorene core. <i>Organic Electronics</i> , 2018 , 55, 157-164	3.5	7
135	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
134	Highly Efficient Tandem Organic Solar Cell Enabled by Environmentally Friendly Solvent Processed Polymeric Interconnecting Layer. <i>Advanced Energy Materials</i> , 2018 , 8, 1703180	21.8	36
133	High-Performance Thick-Film All-Polymer Solar Cells Created Via Ternary Blending of a Novel Wide-Bandgap Electron-Donating Copolymer. <i>Advanced Energy Materials</i> , 2018 , 8, 1703085	21.8	97
132	Asymmetric Alkyl Side-Chain Engineering of Naphthalene Diimide-Based n-Type Polymers for Efficient All-Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700765	4.8	17
131	Cross-conjugated n-type polymer acceptors for efficient all-polymer solar cells. <i>Chemical Communications</i> , 2018 , 54, 2204-2207	5.8	13
130	Semi-orthogonal solution-processed polyfluorene derivative for multilayer blue polymer light-emitting diodes. <i>Organic Electronics</i> , 2018 , 54, 133-139	3.5	9
129	Synthesis and properties of five ring fused aromatic compounds based on S,S-dioxide benzothiophene. <i>New Journal of Chemistry</i> , 2018 , 42, 2750-2757	3.6	8
128	Organic/Inorganic Hybrid EIL for All-Solution-Processed OLEDs. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700380	6.4	11

127	A thermally cross-linked hole-transporting film with the remarkable solvent resistance for solution-processed OLEDs. <i>Organic Electronics</i> , 2018 , 57, 345-351	3.5	13
126	Improved performance of non-fullerene polymer solar cells using wide-bandgap random terpolymers. <i>Organic Electronics</i> , 2018 , 57, 317-322	3.5	10
125	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
124	11.2% All-Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. <i>Advanced Materials</i> , 2018 , 30, e1803166	24	78
123	Efficient Non-fullerene Organic Solar Cells Enabled by Sequential Fluorination of Small-Molecule Electron Acceptors. <i>Frontiers in Chemistry</i> , 2018 , 6, 303	5	6
122	Novel electron transporting materials for highly efficient fully solution-processed green PhOLEDs with low rolls-off and drive voltage. <i>Dyes and Pigments</i> , 2018 , 158, 20-27	4.6	2
121	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
120	Star-like n-type conjugated polymers based on naphthalenediimide for all-polymer solar cells. <i>Dyes and Pigments</i> , 2018 , 159, 85-91	4.6	11
119	Introducing cyclic alkyl chains into small-molecule acceptors for efficient polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7046-7053	7.1	20
118	Crosslinkable triphenylamine-based hole-transporting polymers for solution-processed polymer light-emitting diodes. <i>Organic Electronics</i> , 2018 , 53, 35-42	3.5	33
117	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
116	Achieving highly efficient blue light-emitting polymers by incorporating a styrylarylene amine unit. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12355-12363	7.1	14
115	Uniform inkjet-printed films with single solvent. <i>Thin Solid Films</i> , 2018 , 667, 21-27	2.2	6
114	Lateral Polymer Photodetectors Using Silver Nanoparticles Promoted PffBT4T-2OD:PC61BM Composite. <i>ACS Photonics</i> , 2018 , 5, 4650-4659	6.3	15
113	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
112	Non-fullerene acceptors end-capped with an extended conjugation group for efficient polymer solar cells. <i>Organic Electronics</i> , 2018 , 59, 366-373	3.5	7
111	Engineering the morphology via processing additives in multiple all-polymer solar cells for improved performance. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10421-10432	13	54
110	Designing ternary blend all-polymer solar cells with an efficiency of over 10% and a fill factor of 78%. <i>Nano Energy</i> , 2018 , 51, 434-441	17.1	50

109	On the understanding of energetic disorder, charge recombination and voltage losses in all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7855-7863	7.1	23
108	Synthesis of regioregular π -conjugated polymers consisting of a lactam moiety via direct heteroarylation polymerization. <i>Chemical Communications</i> , 2017 , 53, 1997-2000	5.8	13
107	High-Performance Organic Field-Effect Transistors Fabricated Based on a Novel Ternary π -Conjugated Copolymer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7315-7321	9.5	18
106	Efficient white polymer light-emitting diodes from single polymer exciplex electroluminescence. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2397-2403	7.1	22
105	Intermolecular H \cdots O \cdots C bonds induced 2D self-assembly of thiophene based diketopyrrolopyrrole derivative. <i>Surface and Interface Analysis</i> , 2017 , 49, 735-739	1.5	3
104	An Open-Circuit Voltage and Power Conversion Efficiency Study of Fullerene Ternary Organic Solar Cells Based on Oligomer/Oligomer and Oligomer/Polymer. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700090	4.8	4
103	A solution-processed and low threshold voltage p-type small molecule based on indolocarbazole- and benzothiophene-fused rings. <i>Dyes and Pigments</i> , 2017 , 144, 32-40	4.6	10
102	In situ patterning of microgrooves via inkjet etching for a solution-processed OLED display. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5005-5009	7.1	26
101	Improved efficiency of blue polymer light-emitting diodes using a hole transport material. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5096-5101	7.1	22
100	Effects of a random copolymer's component distribution on its opto-electronic properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6163-6168	7.1	4
99	Improving electroluminescent performance of blue light-emitting poly(fluorene-co-dibenzothiophene-S,S-dioxide) by end-capping. <i>Organic Electronics</i> , 2017 , 48, 118-126	3.5	21
98	High-Performance Nonfullerene Polymer Solar Cells based on Imide-Functionalized Wide-Bandgap Polymers. <i>Advanced Materials</i> , 2017 , 29, 1606396	24	135
97	Regioregular narrow-bandgap-conjugated polymers for plastic electronics. <i>Nature Communications</i> , 2017 , 8, 14047	17.4	157
96	Optimisation of processing solvent and molecular weight for the production of green-solvent-processed all-polymer solar cells with a power conversion efficiency over 9%. <i>Energy and Environmental Science</i> , 2017 , 10, 1243-1251	35.4	307
95	Towards a bright future: polymer solar cells with power conversion efficiencies over 10%. <i>Science China Chemistry</i> , 2017 , 60, 571-582	7.9	104
94	Carbazole-diphenylimidazole based bipolar material and its application in blue, green and red single layer OLEDs by solution processing. <i>Dyes and Pigments</i> , 2017 , 142, 175-182	4.6	19
93	Novel perylene diimide based polymeric electron-acceptors containing ethynyl as the π -bridge for all-polymer solar cells. <i>Organic Electronics</i> , 2017 , 45, 227-233	3.5	24
92	Microwave-assisted one-pot three-component polymerization of alkynes, aldehydes and amines toward amino-functionalized optoelectronic polymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 269-281	3.5	13

91	Improved Performance of Ternary Polymer Solar Cells Based on A Nonfullerene Electron Cascade Acceptor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602127	21.8	90
90	Non-fullerene acceptors based on fused-ring oligomers for efficient polymer solar cells via complementary light-absorption. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23926-23936	13	57
89	Efficient All-Polymer Solar Cells Based on Conjugated Polymer Containing an Alkoxylated Imide-Functionalized Benzotriazole Unit. <i>Macromolecules</i> , 2017 , 50, 8149-8157	5.5	27
88	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
87	Effect of Pyridyl Orientation on the Molecular Conformation and Self-Assembled Morphology of Regioisomeric Diketopyrrolopyrrole Derivatives. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19305-19313 ^{3.8}		5
86	Thick Film Polymer Solar Cells Based on Naphtho[1,2-c:5,6-c']bis[1,2,5]thiadiazole Conjugated Polymers with Efficiency over 11%. <i>Advanced Energy Materials</i> , 2017 , 7, 1700944	21.8	115
85	Highly efficient blue polyfluorenes using blending materials as hole transport layer. <i>Organic Electronics</i> , 2017 , 51, 111-118	3.5	11
84	Enhanced Photovoltaic Performance of Ternary Polymer Solar Cells by Incorporation of a Narrow-Bandgap Nonfullerene Acceptor. <i>Chemistry of Materials</i> , 2017 , 29, 8177-8186	9.6	58
83	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
82	Highly efficient single-layer blue polymer light-emitting diodes based on hole-transporting group substituted poly(fluorene-co-dibenzothiophene-S,S-dioxide). <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9680-9686	7.1	22
81	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	24	294
80	Diethynylbenzo[1,2-b:4,5-b']dithiophene-based small molecule and cross-conjugated copolymers for organic solar cells. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 660-671	2.5	3
79	Naphthalene Diimide-Based Polymers Consisting of Amino Alkyl Side Groups: Three-Component One-Pot Polymerization and Their Application in Polymer Solar Cells. <i>Acta Chimica Sinica</i> , 2017 , 75, 808	3.3	13
78	P-224L: Late-News Poster: Inkjet-printed Hyperbranched Polymer and Temperature Control of the Dewetting Phenomenon. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 1562-1564	0.5	1
77	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	24	207
76	Polymer Solar Cells: High-Performance Polymer Solar Cells Based on a Wide-Bandgap Polymer Containing Pyrrolo[3,4-f]benzotriazole-5,7-dione with a Power Conversion Efficiency of 8.63% (Adv. Sci. 9/2016). <i>Advanced Science</i> , 2016 , 3,	13.6	78
75	Improved Morphology and Efficiency of Polymer Solar Cells by Processing Donor/Acceptor Copolymer Additives. <i>Advanced Functional Materials</i> , 2016 , 26, 6479-6488	15.6	27
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73	Solution-processable bipolar S,S-dioxide-dibenzothiophene chromophores for single-layer organic light-emitting diodes. <i>New Journal of Chemistry</i> , 2016 , 40, 7741-7749	3.6	1
72	Recent advances in high performance solution processed WOLEDs for solid-state lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10993-11006	7.1	72
71	Improving efficiency and color purity of poly(9,9-dioctylfluorene) through addition of a high boiling-point solvent of 1-chloronaphthalene. <i>Nanotechnology</i> , 2016 , 27, 284001	3.4	19
70	Methanol treatment on low-conductive PEDOT:PSS to enhance the PLED's performance. <i>Organic Electronics</i> , 2016 , 28, 252-256	3.5	24
69	Synthesis and characterization of π -conjugated copolymers based on alkyltriazolyl substituted benzodithiophene. <i>New Journal of Chemistry</i> , 2016 , 40, 4727-4734	3.6	10
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65	Nanowires of indigo and isoindigo-based molecules with thermally removable groups. <i>Dyes and Pigments</i> , 2016 , 125, 54-63	4.6	17
64	Efficient saturated red light-emitting polyfluorenes containing iridium complexes in side chains. <i>New Journal of Chemistry</i> , 2016 , 40, 179-186	3.6	5
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60	Small molecular hole-transporting and emitting materials for hole-only green organic light-emitting devices. <i>Dyes and Pigments</i> , 2016 , 131, 41-48	4.6	16
59	Wide bandgap dithienobenzodithiophene-based π -conjugated polymers consisting of fluorinated benzotriazole and benzothiadiazole for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4719-4727	7.1	31
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47	Tailoring π -conjugated dithienosilole-benzothiadiazole oligomers for organic solar cells. <i>New Journal of Chemistry</i> , 2015 , 39, 3658-3664	3.6	6
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20	The effect of methanol treatment on the performance of polymer solar cells. <i>Nanotechnology</i> , 2013 , 24, 484003	3.4	32

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