

Long Ye

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.

185
papers

15,586
citations

61
h-index

123
g-index

201
ext. papers

17,959
ext. citations

13.4
avg, IF

7.08
L-index

#	Paper	IF	Citations
185	Morphology control in high-efficiency all-polymer solar cells. <i>Informa Materials</i> , 2022 ,	23.1	8
184	Understanding the molecular mechanisms of the differences in the efficiency and stability of all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1850-1861	7.1	2
183	Delicate crystallinity control enables high-efficiency P3HT organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2022 ,	13	12
182	Achieving high efficiency and well-kept ductility in ternary all-polymer organic photovoltaic blends thanks to two well miscible donors. <i>Matter</i> , 2022 ,	12.7	29
181	Revealing the Molar Mass Dependence on Thermal, Microstructural, and Electrical Properties of Direct Arylation Polycondensation Prepared Poly(3-hexylthiophene). <i>ACS Applied Polymer Materials</i> , 2022 , 4, 1826-1835	4.3	2
180	Morphological Characterization and Manipulation of Organic Solar Cells 2022 , 519-554		0
179	Simultaneously Enhanced Efficiency and Mechanical Durability in Ternary Solar Cells Enabled by Low-Cost Incompletely Separated Fullerenes.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200139	4.8	2
178	Reproducibility in Time and Space-The Molecular Weight Effects of Polymeric Materials in Organic Photovoltaic Devices.. <i>Small Methods</i> , 2022 , e2101548	12.8	2
177	Simple Polythiophene Solar Cells Approaching 10% Efficiency via Carbon Chain Length Modulation of Poly(3-alkylthiophene). <i>Macromolecules</i> , 2022 , 55, 133-145	5.5	11
176	An Aggregation-Suppressed Polymer Blending Strategy Enables High-Performance Organic and Quantum Dot Hybrid Solar Cells.. <i>Small</i> , 2022 , e2201387	11	1
175	Unraveling the Photovoltaic, Mechanical, and Microstructural Properties and Their Correlations in Simple Poly(3-pentylthiophene) Solar Cells.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200229	4.8	
174	The rise of polythiophene photovoltaics. <i>Joule</i> , 2022 , 6, 941-944	27.8	4
173	Unraveling the Molar Mass Dependence of Shearing Induced Aggregation Structure of a High Mobility Polymer Semiconductor. <i>Advanced Materials</i> , 2021 , e2108255	24	8
172	Stabilizing the microstructure for Y6-series nonfullerene solar cells. <i>Chem</i> , 2021 ,	16.2	1
171	Printable and stable all-polymer solar cells based on non-conjugated polymer acceptors with excellent mechanical robustness. <i>Science China Chemistry</i> , 2021 , 1	7.9	8
170	Understanding, quantifying, and controlling the molecular ordering of semiconducting polymers: from novices to experts and amorphous to perfect crystals. <i>Materials Horizons</i> , 2021 ,	14.4	29
169	Eco-friendly solution processing of all-polymer solar cells: Recent advances and future perspective. <i>Journal of Polymer Science</i> , 2021 ,	2.4	2

168	Advances and prospective in thermally stable nonfullerene polymer solar cells. <i>Science China Chemistry</i> , 2021 , 64, 1875	7.9	12
167	The renaissance of polythiophene organic solar cells. <i>Trends in Chemistry</i> , 2021 ,	14.8	21
166	Towards a bright future: The versatile applications of organic solar cells. <i>Materials Reports Energy</i> , 2021 , 1, 100062		8
165	Resolving the Molecular Origin of Mechanical Relaxations in Donor-Acceptor Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2021 , 2105597	15.6	3
164	Thermoplastic Elastomer Tunes Phase Structure and Promotes Stretchability of High-Efficiency Organic Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2106732	24	32
163	Fluorination Enables Tunable Molecular Interaction and Photovoltaic Performance in Non-Fullerene Solar Cells Based on Ester-Substituted Polythiophene. <i>Frontiers in Chemistry</i> , 2021 , 9, 687996	5	4
162	Near-infrared absorbing non-fullerene acceptors with unfused D-A-D core for efficient organic solar cells. <i>Organic Electronics</i> , 2021 , 92, 106131	3.5	0
161	Low-bandgap conjugated polymers based on benzodipyrrolidone with reliable unipolar electron mobility exceeding $1 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$. <i>Science China Chemistry</i> , 2021 , 64, 1219-1227	7.9	7
160	High-Performance All-Polymer Solar Cells and Photodetectors Enabled by a High-Mobility n-Type Polymer and Optimized Bulk-Heterojunction Morphology. <i>Chemistry of Materials</i> , 2021 , 33, 3746-3756	9.6	4
159	Control of aggregated structure of photovoltaic polymers for high-efficiency solar cells. <i>Aggregate</i> , 2021 , e46	22.9	18
158	Open-Circuit Voltage Loss in Lead Chalcogenide Quantum Dot Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2008115	24	9
157	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15988-15994	16.4	17
156	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie</i> , 2021 , 133, 16124-16130	3.6	3
155	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> , 2021 , 85, 105963	17.1	27
154	Miscibility Control by Tuning Electrostatic Interactions in Bulk Heterojunction for Efficient Organic Solar Cells 2021 , 3, 1276-1283		8
153	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6 % Efficiency Organic Solar Cells with Enhanced Fill Factor. <i>Angewandte Chemie</i> , 2021 , 133, 2352-2359	3.6	9
152	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> , 2021 , 60, 2322-2329	16.4	94
151	Recent advances in the development of radiative sky cooling inspired from solar thermal harvesting. <i>Nano Energy</i> , 2021 , 81, 105611	17.1	13

150	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> , 2021 , 82, 105679	17.1	17
149	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> , 2021 , 9, 556-565	13	11
148	Effects of personality on job burnout and safety performance of high-speed rail drivers in China: the mediator of organizational identification. <i>Journal of Transportation Safety and Security</i> , 2021 , 13, 695-713	1.7	3
147	Modulation of Morphological, Mechanical, and Photovoltaic Properties of Ternary Organic Photovoltaic Blends for Optimum Operation. <i>Advanced Energy Materials</i> , 2021 , 11, 2003506	21.8	50
146	Ternary copolymers containing 3,4-dicyanothiophene for efficient organic solar cells with reduced energy loss. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13522-13530	13	11
145	Relationship between charge transfer state electroluminescence and the degradation of organic photovoltaics. <i>Applied Physics Letters</i> , 2021 , 118, 063301	3.4	1
144	Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2010535	15.6	26
143	Implications of Crystallization Temperatures of Organic Small Molecules in Optimizing Nonfullerene Solar Cell Performance. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8442-8453	6.1	2
142	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
141	Remove the water-induced traps toward improved performance in organic solar cells. <i>Science China Materials</i> , 2021 , 64, 2629-2644	7.1	7
140	Challenges and recent advances in photodiodes-based organic photodetectors. <i>Materials Today</i> , 2021 , 51, 475-475	21.8	24
139	Non-fullerene acceptor organic photovoltaics with intrinsic operational lifetimes over 30 years. <i>Nature Communications</i> , 2021 , 12, 5419	17.4	25
138	Revealing the Side-Chain-Dependent Ordering Transition of Highly Crystalline Double-Cable Conjugated Polymers. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25499-25507	16.4	6
137	Optimization of Monomer Molecular Structure for Polymer Electrodes Fabricated through in-situ Electro-Polymerization Strategy. <i>ChemSusChem</i> , 2021 , 14, 4573-4582	8.3	1
136	Calculation aided miscibility manipulation enables highly efficient polythiophene:nonfullerene photovoltaic cells. <i>Science China Chemistry</i> , 2021 , 64, 478-487	7.9	24
135	Sequential deposition enables high-performance nonfullerene organic solar cells. <i>Materials Chemistry Frontiers</i> , 2021 ,	7.8	9
134	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> , 2021 , 9, 19874-19885 ¹³	13	17
133	P3HT-Based Organic Solar Cells with a Photoresponse to 1000 nm Enabled by Narrow Band Gap Nonfullerene Acceptors with High HOMO Levels.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61487-61495 ¹⁴	9.5	14

132	Impact of Molecular Weight on the Mechanical and Electrical Properties of a High-Mobility Diketopyrrolopyrrole-Based Conjugated Polymer. <i>Macromolecules</i> , 2020 , 53, 4490-4500	5.5	42
131	Optimization Requirements of Efficient Polythiophene:Nonfullerene Organic Solar Cells. <i>Joule</i> , 2020 , 4, 1278-1295	27.8	90
130	Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9004-9010	16.4	74
129	Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. <i>Angewandte Chemie</i> , 2020 , 132, 9089-9095	3.6	17
128	Role of Secondary Thermal Relaxations in Conjugated Polymer Film Toughness. <i>Chemistry of Materials</i> , 2020 , 32, 6540-6549	9.6	10
127	3,4-Dicyanothiophene—Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1904247	21.8	35
126	Asymmetrically noncovalently fused-ring acceptor for high-efficiency organic solar cells with reduced voltage loss and excellent thermal stability. <i>Nano Energy</i> , 2020 , 74, 104861	17.1	39
125	2D covalent organic framework thin films via interfacial self-polycondensation of an AB type monomer. <i>Chemical Communications</i> , 2020 , 56, 3253-3256	5.8	25
124	TCNQ as a volatilizable morphology modulator enables enhanced performance in non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 44-49	7.1	11
123	PBDB-T and its derivatives: A family of polymer donors enables over 17% efficiency in organic photovoltaics. <i>Materials Today</i> , 2020 , 35, 115-130	21.8	141
122	Reduced Energy Loss in Non-Fullerene Organic Solar Cells with Isomeric Donor Polymers Containing Thiazole Spacers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 753-762	9.5	17
121	Enhanced efficiency in nonfullerene organic solar cells by tuning molecular order and domain characteristics. <i>Nano Energy</i> , 2020 , 77, 105310	17.1	15
120	Molecular Engineering and Morphology Control of Polythiophene:Nonfullerene Acceptor Blends for High-Performance Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2002572	21.8	54
119	Molecular design of a non-fullerene acceptor enables a P3HT-based organic solar cell with 9.46% efficiency. <i>Energy and Environmental Science</i> , 2020 , 13, 2864-2869	35.4	93
118	Direct Arylation Polycondensation of Chlorinated Thiophene Derivatives to High-Mobility Conjugated Polymers. <i>Macromolecules</i> , 2020 , 53, 10147-10154	5.5	10
117	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and High-Efficiency Semitransparent Organic Photovoltaics. <i>Solar Rrl</i> , 2020 , 4, 2000328	7.1	21
116	Efficient As-Cast Polymer Solar Cells with High and Stabilized Fill Factor. <i>Solar Rrl</i> , 2020 , 4, 2000275	7.1	6
115	Efficient Organic Ternary Solar Cells Employing Narrow Band Gap Diketopyrrolopyrrole Polymers and Nonfullerene Acceptors. <i>Chemistry of Materials</i> , 2020 , 32, 7309-7317	9.6	14

114	A Narrow-Bandgap n-Type Polymer with an Acceptor-Acceptor Backbone Enabling Efficient All-Polymer Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2004183	24	114
113	Significance of thermodynamic interaction parameters in guiding the optimization of polymer:nonfullerene solar cells. <i>Chemical Communications</i> , 2020 , 56, 12463-12478	5.8	33
112	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> , 2020 , 59, 21683-21692	16.4	45
111	Miscibility-Controlled Phase Separation in Double-Cable Conjugated Polymers for Single-Component Organic Solar Cells with Efficiencies over 8 %. <i>Angewandte Chemie</i> , 2020 , 132, 21867-21876 ¹¹	3.6	11
110	A 3D nonfullerene electron acceptor with a 9,9?-bicarbazole backbone for high-efficiency organic solar cells. <i>Organic Electronics</i> , 2020 , 84, 105784	3.5	3
109	Conjugation-Curtailing of Benzodithionopyran-Cored Molecular Acceptor Enables Efficient Air-Processed Small Molecule Solar Cells. <i>Small</i> , 2019 , 15, e1902656	11	11
108	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> , 2019 , 3, 137-144	7.8	10
107	Enhanced JSC of P3HT-based non-fullerene polymer solar cells by modulating aggregation effect of P3HT in solution state. <i>Organic Electronics</i> , 2019 , 68, 15-21	3.5	12
106	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> , 2019 , 12, 777-783	10	25
105	The crucial role of end group planarity for fused-ring electron acceptors in organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1642-1652	7.8	9
104	Supervisory and coworker support for safety: Buffers between job insecurity and safety performance of high-speed railway drivers in China. <i>Safety Science</i> , 2019 , 117, 290-298	5.8	27
103	Sequential Deposition of Organic Films with Eco-Compatible Solvents Improves Performance and Enables Over 12%-Efficiency Nonfullerene Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1808153	24	80
102	Highly Efficient, Stable, and Ductile Ternary Nonfullerene Organic Solar Cells from a Two-Donor Polymer Blend. <i>Advanced Materials</i> , 2019 , 31, e1808279	24	50
101	Rational Strategy to Stabilize an Unstable High-Efficiency Binary Nonfullerene Organic Solar Cells with a Third Component. <i>Advanced Energy Materials</i> , 2019 , 9, 1900376	21.8	88
100	Efficient Thick-Film Polymer Solar Cells with Enhanced Fill Factors via Increased Fullerene Loading. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10794-10800	9.5	17
99	Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901823	21.8	53
98	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> , 2019 , 12, 3118-3132	35.4	83
97	The Importance of Entanglements in Optimizing the Mechanical and Electrical Performance of All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 5124-5132	9.6	52

96	Alkyl Chain Tuning of Small Molecule Acceptors for Efficient Organic Solar Cells. <i>Joule</i> , 2019 , 3, 3020-3033	37.8	504
95	Modulation of Building Block Size in Conjugated Polymers with D _A Structure for Polymer Solar Cells. <i>Macromolecules</i> , 2019 , 52, 7929-7938	5.5	6
94	Soft X-Ray Scattering Characterization of Polymer Semiconductors 2019 , 427-458		6
93	Polymer Side-Chain Variation Induces Microstructural Disparity in Nonfullerene Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 6568-6577	9.6	35
92	Twisted Conjugated molecules as donor materials for efficient all-small-molecule organic solar cells processed with tetrahydrofuran. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23008-23018	13	21
91	Revealing the Impact of F4-TCNQ as Additive on Morphology and Performance of High-Efficiency Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1806262	15.6	41
90	A Printable Organic Cathode Interlayer Enables over 13% Efficiency for 1-cm ² Organic Solar Cells. <i>Joule</i> , 2019 , 3, 227-239	27.8	127
89	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , 2019 , 3, 443-458	27.8	128
88	Isomery-Dependent Miscibility Enables High-Performance All-Small-Molecule Solar Cells. <i>Small</i> , 2019 , 15, e1804271	11	43
87	Solar Cells: Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent (Adv. Mater. 8/2018). <i>Advanced Materials</i> , 2018 , 30, 1870054	24	3
86	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. <i>Nature Materials</i> , 2018 , 17, 253-260	27	409
85	Miscibility-Function Relations in Organic Solar Cells: Significance of Optimal Miscibility in Relation to Percolation. <i>Advanced Energy Materials</i> , 2018 , 8, 1703058	21.8	175
84	A polymer design strategy toward green solvent processed efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4324-4330	13	38
83	Controlling Blend Morphology for Ultrahigh Current Density in Nonfullerene Acceptor-Based Organic Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 669-676	20.1	187
82	Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent. <i>Advanced Materials</i> , 2018 , 30, 1705485	24	127
81	A High-Efficiency Organic Solar Cell Enabled by the Strong Intramolecular Electron Push-Pull Effect of the Nonfullerene Acceptor. <i>Advanced Materials</i> , 2018 , 30, e1707170	24	295
80	Influence of Donor Polymer on the Molecular Ordering of Small Molecular Acceptors in Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701674	21.8	46
79	High-Performance Wide Bandgap Copolymers Using an EDOT Modified Benzodithiophene Donor Block with 10.11% Efficiency. <i>Advanced Energy Materials</i> , 2018 , 8, 1602773	21.8	29

78	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> , 2018 , 140, 9996-10008	16.4	61
77	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> , 2018 , 140, 7159-7167	16.4	579
76	Effect of Alkylsilyl Side-Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. <i>Advanced Energy Materials</i> , 2018 , 8, 1702324	21.8	85
75	Measuring Temperature-Dependent Miscibility for Polymer Solar Cell Blends: An Easily Accessible Optical Method Reveals Complex Behavior. <i>Chemistry of Materials</i> , 2018 , 30, 3943-3951	9.6	26
74	High-Efficiency All-Small-Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilyl-Thienyl Conjugated Side Chains. <i>Advanced Materials</i> , 2018 , 30, e1706361	24	130
73	Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PyCNTAZ. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4886-4893	13	41
72	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> , 2017 , 7, 1700183	21.8	155
71	Quantitative Morphology Performance Correlations in Organic Solar Cells: Insights from Soft X-Ray Scattering. <i>Advanced Energy Materials</i> , 2017 , 7, 1700084	21.8	105
70	A regioregular conjugated polymer for high performance thick-film organic solar cells without processing additive. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10517-10525	13	38
69	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1604603	24	63
68	Morphology control enables thickness-insensitive efficient nonfullerene polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2057-2064	7.8	37
67	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Open-Circuit Voltage. <i>Advanced Materials</i> , 2017 , 29, 1700254	24	314
66	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5085-5094	16.4	270
65	High-Efficiency Nonfullerene Organic Solar Cells: Critical Factors that Affect Complex Multi-Length Scale Morphology and Device Performance. <i>Advanced Energy Materials</i> , 2017 , 7, 1602000	21.8	205
64	Design of a New Small-Molecule Electron Acceptor Enables Efficient Polymer Solar Cells with High Fill Factor. <i>Advanced Materials</i> , 2017 , 29, 1704051	24	200
63	Precise Manipulation of Multilength Scale Morphology and Its Influence on Eco-Friendly Printed All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1702016	15.6	85
62	Precise Characterization of Performance Metrics of Organic Solar Cells. <i>Small Methods</i> , 2017 , 1, 1700159	12.8	10
61	Environmentally-friendly solvent processed fullerene-free organic solar cells enabled by screening halogen-free solvent additives. <i>Science China Materials</i> , 2017 , 60, 697-706	7.1	22

60	Role of Polymer Segregation on the Mechanical Behavior of All-Polymer Solar Cell Active Layers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43886-43892	9.5	35
59	Control of Mesoscale Morphology and Photovoltaic Performance in Diketopyrrolopyrrole-Based Small Band Gap Terpolymers. <i>Advanced Energy Materials</i> , 2017 , 7, 1601138	21.8	53
58	Identification of the histone lysine demethylase KDM4A/JMJD2A as a novel epigenetic target in M1 macrophage polarization induced by oxidized LDL. <i>Oncotarget</i> , 2017 , 8, 114442-114456	3.3	12
57	Dialkylthio Substitution: An Effective Method to Modulate the Molecular Energy Levels of 2D-BDT Photovoltaic Polymers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3575-83	9.5	41
56	Manipulation of Domain Purity and Orientational Ordering in High Performance All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 6178-6185	9.6	78
55	High-Efficiency Polymer Solar Cells Enabled by Environment-Friendly Single-Solvent Processing. <i>Advanced Energy Materials</i> , 2016 , 6, 1502177	21.8	83
54	Molecular Design of Benzodithiophene-Based Organic Photovoltaic Materials. <i>Chemical Reviews</i> , 2016 , 116, 7397-457	68.1	824
53	Improving the open-circuit voltage of alkylthio-substituted photovoltaic polymers via post-oxidation. <i>Organic Electronics</i> , 2016 , 28, 39-46	3.5	12
52	Green-Solvent-Processed All-Polymer Solar Cells Containing a Perylene Diimide-Based Acceptor with an Efficiency over 6.5%. <i>Advanced Energy Materials</i> , 2016 , 6, 1501991	21.8	148
51	Effectively Improving Extinction Coefficient of Benzodithiophene and Benzodithiophenedione-based Photovoltaic Polymer by Grafting Alkylthio Functional Groups. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2650-2655	4.5	10
50	Breaking the 10% Efficiency Barrier in Organic Photovoltaics: Morphology and Device Optimization of Well-Known PBDDTTT Polymers. <i>Advanced Energy Materials</i> , 2016 , 6, 1502529	21.8	267
49	Green-solvent-processable organic solar cells. <i>Materials Today</i> , 2016 , 19, 533-543	21.8	193
48	Energy-Level Modulation of Small-Molecule Electron Acceptors to Achieve over 12% Efficiency in Polymer Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 9423-9429	24	1191
47	High Performance Organic Solar Cells Processed by Blade Coating in Air from a Benign Food Additive Solution. <i>Chemistry of Materials</i> , 2016 , 28, 7451-7458	9.6	83
46	Realizing over 10% efficiency in polymer solar cell by device optimization. <i>Science China Chemistry</i> , 2015 , 58, 248-256	7.9	302
45	Optimization of side chains in alkylthiothiophene-substituted benzo[1,2-b:4,5-b']dithiophene-based photovoltaic polymers. <i>Polymer Chemistry</i> , 2015 , 6, 2752-2760	4.9	33
44	Highly Efficient Photovoltaic Polymers Based on Benzodithiophene and Quinoxaline with Deeper HOMO Levels. <i>Macromolecules</i> , 2015 , 48, 5172-5178	5.5	96
43	Enhanced Efficiency in Fullerene-Free Polymer Solar Cell by Incorporating Fine-designed Donor and Acceptor Materials. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9274-80	9.5	97

42	A universal halogen-free solvent system for highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12723-12729	13	90
41	Influence of the alkyl substitution position on photovoltaic properties of 2D-BDT-based conjugated polymers. <i>Science China Materials</i> , 2015 , 58, 213-222	7.1	20
40	2D-Conjugated Benzodithiophene-Based Polymer Acceptor: Design, Synthesis, Nanomorphology, and Photovoltaic Performance. <i>Macromolecules</i> , 2015 , 48, 7156-7163	5.5	64
39	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> , 2015 , 3, 9565-9571	7.1	49
38	Highly efficient tandem polymer solar cells with a photovoltaic response in the visible light range. <i>Advanced Materials</i> , 2015 , 27, 1189-94	24	127
37	Toward reliable and accurate evaluation of polymer solar cells based on low band gap polymers. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 564-569	7.1	29
36	Manipulating aggregation and molecular orientation in all-polymer photovoltaic cells. <i>Advanced Materials</i> , 2015 , 27, 6046-54	24	232
35	Molecular Design and Application of a Photovoltaic Polymer with Improved Optical Properties and Molecular Energy Levels. <i>Macromolecules</i> , 2015 , 48, 3493-3499	5.5	46
34	Molecular design strategies for voltage modulation in highly efficient polymer solar cells. <i>Polymer International</i> , 2015 , 64, 957-962	3.3	41
33	Conjugated Polymer Photovoltaic Materials. <i>Lecture Notes in Quantum Chemistry II</i> , 2015 , 195-239	0.6	2
32	An Easily Accessible Cathode Buffer Layer for Achieving Multiple High Performance Polymer Photovoltaic Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27322-27329	3.8	29
31	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. <i>Science China Materials</i> , 2015 , 58, 953-960	7.1	34
30	Toward efficient non-fullerene polymer solar cells: Selection of donor polymers. <i>Organic Electronics</i> , 2015 , 17, 295-303	3.5	40
29	CHAPTER 2: New Polymer Donors for Polymer Solar Cells. <i>RSC Polymer Chemistry Series</i> , 2015 , 32-77	1.3	2
28	Ultrathin polyaniline-based buffer layer for highly efficient polymer solar cells with wide applicability. <i>Scientific Reports</i> , 2014 , 4, 6570	4.9	65
27	Enhanced photovoltaic performance by modulating surface composition in bulk heterojunction polymer solar cells based on PBDTTT-C-T/PC71 BM. <i>Advanced Materials</i> , 2014 , 26, 4043-9	24	198
26	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> , 2014 , 26, 4234-41	24	123
25	Bay-linked perylene bisimides as promising non-fullerene acceptors for organic solar cells. <i>Chemical Communications</i> , 2014 , 50, 1024-6	5.8	262

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23	Photovoltaics: Quantification of Nano- and Mesoscale Phase Separation and Relation to Donor and Acceptor Quantum Efficiency, J_{sc} , and FF in Polymer:Fullerene Solar Cells (Adv. Mater. 25/2014). <i>Advanced Materials</i> , 2014 , 26, 4399-4399	24	1
22	Side Chain Selection for Designing Highly Efficient Photovoltaic Polymers with 2D-Conjugated Structure. <i>Macromolecules</i> , 2014 , 47, 4653-4659	5.5	240
21	Investigations of the Conjugated Polymers Based on Dithienogermole (DTG) Units for Photovoltaic Applications. <i>Macromolecules</i> , 2014 , 47, 5558-5565	5.5	30
20	Highly Efficient 2D-Conjugated Benzodithiophene-Based Photovoltaic Polymer with Linear Alkylthio Side Chain. <i>Chemistry of Materials</i> , 2014 , 26, 3603-3605	9.6	509
19	Molecular design toward highly efficient photovoltaic polymers based on two-dimensional conjugated benzodithiophene. <i>Accounts of Chemical Research</i> , 2014 , 47, 1595-603	24.3	624
18	Selecting a donor polymer for realizing favorable morphology in efficient non-fullerene acceptor-based solar cells. <i>Small</i> , 2014 , 10, 4658-63	11	72
17	Competition between morphological attributes in the thermal annealing and additive processing of polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5023	7.1	42
16	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> , 2013 , 25, 5791-7	24	407
15	Remove the Residual Additives toward Enhanced Efficiency with Higher Reproducibility in Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14920-14928	3.8	199
14	Enhanced Photovoltaic Performance of Diketopyrrolopyrrole (DPP)-Based Polymers with Extended π -Conjugation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9550-9557	3.8	100
13	Application of Bis-PCBM in Polymer Solar Cells with Improved Voltage. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25360-25366	3.8	56
12	Benzodifuran-alt-thienothiophene based low band gap copolymers: substituent effects on their molecular energy levels and photovoltaic properties. <i>Polymer Chemistry</i> , 2013 , 4, 3047	4.9	42
11	Molecular design toward efficient polymer solar cells with high polymer content. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8464-7	16.4	83
10	Subnanosecond charge photogeneration and recombination in polyfluorene copolymer-fullerene solar cell: effects of electric field. <i>Optics Express</i> , 2013 , 21 Suppl 2, A241-9	3.3	2
9	Conjugated and Nonconjugated Substitution Effect on Photovoltaic Properties of Benzodifuran-Based Photovoltaic Polymers. <i>Macromolecules</i> , 2012 , 45, 6923-6929	5.5	125
8	From binary to ternary solvent: morphology fine-tuning of D/A blends in PDPP3T-based polymer solar cells. <i>Advanced Materials</i> , 2012 , 24, 6335-41	24	276
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