

# Han Young Woo

## List of Publications by Year in descending order

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321  
papers

15,543  
citations

16451

64  
h-index

26613

107  
g-index

326  
all docs

326  
docs citations

326  
times ranked

8261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-crystalline photovoltaic polymers with efficiency exceeding 9% in a $\sim 1/4$ 300 nm thick conventional single-cell device. <i>Energy and Environmental Science</i> , 2014, 7, 3040-3051.	30.8	600
2	Eco-compatible Solvent-Processed Organic Photovoltaic Cells with Over 16% Efficiency. <i>Advanced Materials</i> , 2019, 31, e1903441.	21.0	445
3	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Open-Circuit Voltage. <i>Advanced Materials</i> , 2017, 29, 1700254.	21.0	363
4	Determining the Role of Polymer Molecular Weight for High-Performance All-Polymer Solar Cells: Its Effect on Polymer Aggregation and Phase Separation. <i>Journal of the American Chemical Society</i> , 2015, 137, 2359-2365.	13.7	347
5	Highly Efficient Fullerene-free Polymer Solar Cells Fabricated with Polythiophene Derivative. <i>Advanced Materials</i> , 2016, 28, 9416-9422.	21.0	303
6	High-Performance All-Polymer Solar Cells Via Side-Chain Engineering of the Polymer Acceptor: The Importance of the Polymer Packing Structure and the Nanoscale Blend Morphology. <i>Advanced Materials</i> , 2015, 27, 2466-2471.	21.0	279
7	Dopant-free Small-molecule Hole-transporting Material for Inverted Perovskite Solar Cells with Efficiency Exceeding 21%. <i>Advanced Materials</i> , 2019, 31, e1902781.	21.0	268
8	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. <i>Journal of the American Chemical Society</i> , 2021, 143, 2665-2670.	13.7	245
9	Morphology Control Enables Efficient Ternary Organic Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1803045.	21.0	243
10	Approaching 18% efficiency of ternary organic photovoltaics with wide bandgap polymer donor and well compatible Y6-IO as acceptor. <i>National Science Review</i> , 2021, 8, nwaa305.	9.5	216
11	Recent advances in organic luminescent materials with narrowband emission. <i>NPG Asia Materials</i> , 2021, 13, .	7.9	209
12	Molecular design of a wide-band-gap conjugated polymer for efficient fullerene-free polymer solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 546-551.	30.8	180
13	A High Efficiency Nonfullerene Organic Solar Cell with Optimized Crystalline Organizations. <i>Advanced Materials</i> , 2016, 28, 910-916.	21.0	179
14	(Semi)ladder-Type Bithiophene Imide-Based All-Acceptor Semiconductors: Synthesis, Structure-Property Correlations, and Unipolar n-Type Transistor Performance. <i>Journal of the American Chemical Society</i> , 2018, 140, 6095-6108.	13.7	178
15	Multi-Charged Conjugated Polyelectrolytes as a Versatile Work Function Modifier for Organic Electronic Devices. <i>Advanced Functional Materials</i> , 2014, 24, 1100-1108.	14.9	170
16	Solution-Processed Organic Solar Cells with High Open-Circuit Voltage of 1.3 V and Low Non-Radiative Voltage Loss of 0.16 V. <i>Advanced Materials</i> , 2020, 32, e2002122.	21.0	168
17	Benzotriazole-Containing Planar Conjugated Polymers with Noncovalent Conformational Locks for Thermally Stable and Efficient Polymer Field-Effect Transistors. <i>Chemistry of Materials</i> , 2014, 26, 2147-2154.	6.7	167
18	Cationic Conjugated Polyelectrolytes-Triggered Conformational Change of Molecular Beacon Aptamer for Highly Sensitive and Selective Potassium Ion Detection. <i>Journal of the American Chemical Society</i> , 2012, 134, 3133-3138.	13.7	162

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19	Side Chain Optimization of Naphthalenediimide-Bithiophene-Based Polymers to Enhance the Electron Mobility and the Performance in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 1543-1553.	14.9	155
20	High-Performance All-Polymer Solar Cells Enabled by an n-Type Polymer Based on a Fluorinated Imide-Functionalized Arene. <i>Advanced Materials</i> , 2019, 31, e1807220.	21.0	154
21	Effects of Bithiophene Imide Fusion on the Device Performance of Organic Thin-Film Transistors and All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15304-15308.	13.8	152
22	Transition metal-catalysed molecular n-doping of organic semiconductors. <i>Nature</i> , 2021, 599, 67-73.	27.8	152
23	Interplay of Intramolecular Noncovalent Coulomb Interactions for Semicrystalline Photovoltaic Polymers. <i>Chemistry of Materials</i> , 2015, 27, 5997-6007.	6.7	150
24	Eco-Friendly Polymer Solar Cells: Advances in Green-Solvent Processing and Material Design. <i>ACS Nano</i> , 2020, 14, 14493-14527.	14.6	150
25	A Fluorinated Polythiophene Derivative with Stabilized Backbone Conformation for Highly Efficient Fullerene and Non-Fullerene Polymer Solar Cells. <i>Macromolecules</i> , 2016, 49, 2993-3000.	4.8	141
26	Over 17% Efficiency Binary Organic Solar Cells with Photoresponses Reaching 1000 nm Enabled by Selenophene-Fused Nonfullerene Acceptors. <i>ACS Energy Letters</i> , 2021, 6, 9-15.	17.4	141
27	Cyano-Functionalized Bithiophene Imide-Based n-Type Polymer Semiconductors: Synthesis, Structure-Property Correlations, and Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2021, 143, 1539-1552.	13.7	134
28	Conjugated Polymer-Assisted Grain Boundary Passivation for Efficient Inverted Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1808855.	14.9	133
29	A Synergistic Strategy of Manipulating the Number of Selenophene Units and Dissymmetric Central Core of Small Molecular Acceptors Enables Polymer Solar Cells with 17.5% Efficiency. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19241-19252.	13.8	129
30	Recent progress in indoor organic photovoltaics. <i>Nanoscale</i> , 2020, 12, 5792-5804.	5.6	126
31	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15% Efficiency and High Reproducibility. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15935-15943.	13.8	125
32	Progress in Materials, Solution Processes, and Long-Term Stability for Large-Area Organic Photovoltaics. <i>Advanced Materials</i> , 2020, 32, e2002217.	21.0	124
33	Rational compatibility in a ternary matrix enables all-small-molecule organic solar cells with over 16% efficiency. <i>Energy and Environmental Science</i> , 2021, 14, 3945-3953.	30.8	124
34	Vertically optimized phase separation with improved exciton diffusion enables efficient organic solar cells with thick active layers. <i>Nature Communications</i> , 2022, 13, 2369.	12.8	122
35	A high-conductivity n-type polymeric ink for printed electronics. <i>Nature Communications</i> , 2021, 12, 2354.	12.8	120
36	Effects of Bithiophene Imide Fusion on the Device Performance of Organic Thin-Film Transistors and All-Polymer Solar Cells. <i>Angewandte Chemie</i> , 2017, 129, 15506-15510.	2.0	115

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37	Asymmetric Acceptors Enabling Organic Solar Cells to Achieve an over 17% Efficiency: Conformation Effects on Regulating Molecular Properties and Suppressing Nonradiative Energy Loss. <i>Advanced Energy Materials</i> , 2021, 11, 2003177.	19.5	114
38	Over 17.7% efficiency ternary-blend organic solar cells with low energy-loss and good thickness-tolerance. <i>Chemical Engineering Journal</i> , 2022, 428, 129276.	12.7	110
39	High-Performance All-Polymer Solar Cells Enabled by n-Type Polymers with an Ultranarrow Bandgap Down to 1.28 eV. <i>Advanced Materials</i> , 2020, 32, e2001476.	21.0	103
40	Ternary Organic Solar Cells with Small Nonradiative Recombination Loss. <i>ACS Energy Letters</i> , 2019, 4, 1196-1203.	17.4	101
41	Smart Ternary Strategy in Promoting the Performance of Polymer Solar Cells Based on Bulk-Heterojunction or Layer-by-Layer Structure. <i>Small</i> , 2022, 18, e2104215.	10.0	100
42	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. <i>Nano Energy</i> , 2022, 92, 106681.	16.0	97
43	Semicrystalline D-A Copolymers with Different Chain Curvature for Applications in Polymer Optoelectronic Devices. <i>Macromolecules</i> , 2014, 47, 1604-1612.	4.8	95
44	Stable Organic Diradicals Based on Fused Quinoidal Oligothiophene Imides with High Electrical Conductivity. <i>Journal of the American Chemical Society</i> , 2020, 142, 4329-4340.	13.7	95
45	Correlation between Phase-Separated Domain Sizes of Active Layer and Photovoltaic Performances in All-Polymer Solar Cells. <i>Macromolecules</i> , 2016, 49, 5051-5058.	4.8	93
46	Single Component Organic Solar Cells Based on Oligothiophene-Fullerene Conjugate. <i>Advanced Functional Materials</i> , 2017, 27, 1702474.	14.9	91
47	Subtle Polymer Donor and Molecular Acceptor Design Enable Efficient Polymer Solar Cells with a Very Small Energy Loss. <i>Advanced Functional Materials</i> , 2020, 30, 1907570.	14.9	89
48	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. <i>Small Methods</i> , 2020, 4, 2000687.	8.6	86
49	Influence of Molecular Weight on the Organic Electrochemical Transistor Performance of Ladder-Type Conjugated Polymers. <i>Advanced Materials</i> , 2022, 34, e2106235.	21.0	86
50	Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600637.	19.5	85
51	Hot slot die coating for additive-free fabrication of high performance roll-to-roll processed polymer solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 3248-3255.	30.8	85
52	Ionic Dopant-Free Polymer Alloy Hole Transport Materials for High-Performance Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2022, 144, 9500-9509.	13.7	85
53	High-efficiency photovoltaic cells with wide optical band gap polymers based on fluorinated phenylene-alkoxybenzothiadiazole. <i>Energy and Environmental Science</i> , 2017, 10, 1443-1455.	30.8	84
54	Ternary Organic Photovoltaic Cells Exhibiting 17.59% Efficiency with Two Compatible Y6 Derivations as Acceptor. <i>Solar Rrl</i> , 2021, 5, 2100007.	5.8	81

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55	Extension of indacenodithiophene backbone conjugation enables efficient asymmetric A <sup>+</sup> A type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18847-18852.	10.3	80
56	Ultra-thick semi-crystalline photoactive donor polymer for efficient indoor organic photovoltaics. <i>Nano Energy</i> , 2019, 58, 466-475.	16.0	79
57	A Wide Bandgap Polymer with Strong $\pi$ - $\pi$ Interaction for Efficient Fullerene-Free Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600742.	19.5	76
58	Isogenous Asymmetric-Symmetric Acceptors Enable Efficient Ternary Organic Solar Cells with Thin and 300Ånm Thick Active Layers Simultaneously. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	75
59	Recent Progress in Organic Thermoelectric Materials and Devices. <i>Macromolecular Research</i> , 2020, 28, 531-552.	2.4	74
60	Distannylated Bithiophene Imide: Enabling High-Performance n-Type Polymer Semiconductors with an Acceptor-Acceptor Backbone. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14449-14457.	13.8	72
61	Intramolecular Noncovalent Interaction-Enabled Dopant-Free Hole-Transporting Materials for High-Performance Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202113749.	13.8	72
62	Achieving 15.81% and 15.29% efficiency of all-polymer solar cells based on layer-by-layer and bulk heterojunction structures. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13492-13499.	10.3	70
63	Highly efficient plasmonic organic optoelectronic devices based on a conducting polymer electrode incorporated with silver nanoparticles. <i>Energy and Environmental Science</i> , 2013, 6, 1949.	30.8	69
64	Ultra-Deep-Blue Aggregation-Induced Delayed Fluorescence Emitters: Achieving Nearly 16% EQE in Solution-Processed Nondoped and Doped OLEDs with CIE <sub>y</sub> <math>0.1</math>. <i>Advanced Functional Materials</i> , 2021, 31, 2102588.	14.9	69
65	Insertion of chlorine atoms onto $\pi$ -bridges of conjugated polymer enables improved photovoltaic performance. <i>Nano Energy</i> , 2019, 58, 220-226.	16.0	67
66	Controlling Energy Levels and Blend Morphology for All-Polymer Solar Cells via Fluorination of a Naphthalene Diimide-Based Copolymer Acceptor. <i>Macromolecules</i> , 2016, 49, 6374-6383.	4.8	66
67	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.	10.3	65
68	Improved Performance in Polymer Solar Cells Using Mixed PC <sub>61</sub> BM/PC <sub>71</sub> BM Acceptors. <i>Advanced Energy Materials</i> , 2015, 5, 1401687.	19.5	63
69	Ethanol-Processable, Highly Crystalline Conjugated Polymers for Eco-Friendly Fabrication of Organic Transistors and Solar Cells. <i>Macromolecules</i> , 2017, 50, 4415-4424.	4.8	63
70	Indoor Organic Photovoltaics: Optimal Cell Design Principles with Synergistic Parasitic Resistance and Optical Modulation Effect. <i>Advanced Energy Materials</i> , 2021, 11, 2003103.	19.5	62
71	Efficient Conventional and Inverted-Type Photovoltaic Cells Using a Planar Alternating Polythiophene Copolymer. <i>Chemistry - A European Journal</i> , 2012, 18, 2551-2558.	3.3	61
72	A New Wide Bandgap Donor Polymer for Efficient Nonfullerene Organic Solar Cells with a Large Open-Circuit Voltage. <i>Advanced Science</i> , 2019, 6, 1901773.	11.2	61

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73	Fluorobenzotriazole (FTAZ)-Based Polymer Donor Enables Organic Solar Cells Exceeding 12% Efficiency. <i>Advanced Functional Materials</i> , 2019, 29, 1808828.	14.9	61
74	Fused Bithiophene Imide Dimer-Based n-Type Polymers for High-Performance Organic Electrochemical Transistors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24198-24205.	13.8	60
75	Measuring the competition between bimolecular charge recombination and charge transport in organic solar cells under operating conditions. <i>Energy and Environmental Science</i> , 2018, 11, 3019-3032.	30.8	59
76	A universal processing additive for high-performance polymer solar cells. <i>RSC Advances</i> , 2017, 7, 7476-7482.	3.6	58
77	Ternary organic solar cells based on two compatible PDI-based acceptors with an enhanced power conversion efficiency. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3552-3557.	10.3	58
78	N-type conjugated polymer as efficient electron transport layer for planar inverted perovskite solar cells with power conversion efficiency of 20.86%. <i>Nano Energy</i> , 2020, 68, 104363.	16.0	58
79	Over 16% efficiency all-polymer solar cells by sequential deposition. <i>Science China Chemistry</i> , 2022, 65, 1157-1163.	8.2	58
80	Significantly Improved Morphology and Efficiency of Nonhalogenated Solvent-Processed Solar Cells Derived from a Conjugated Donor-Acceptor Block Copolymer. <i>Advanced Science</i> , 2020, 7, 1902470.	11.2	55
81	Multifunctional Charge Transporting Materials for Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e2002176.	21.0	55
82	Engineering of dendritic dopant-free hole transport molecules: enabling ultrahigh fill factor in perovskite solar cells with optimized dendron construction. <i>Science China Chemistry</i> , 2021, 64, 41-51.	8.2	55
83	Efficient Semitransparent Layer-by-Layer Organic Photovoltaics via Optimizing Wide Bandgap and Narrow Absorption Polymer Layer Thickness. <i>Solar Rrl</i> , 2022, 6, .	5.8	55
84	Imide-Functionalized Heteroarene-Based n-Type Terpolymers Incorporating Intramolecular Noncovalent Sulfur <sup>TM</sup> -Oxygen Interactions for Additive-Free All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1903970.	14.9	53
85	Narrow-Bandgap Single-Component Polymer Solar Cells with Approaching 9% Efficiency. <i>Advanced Materials</i> , 2021, 33, e2101295.	21.0	53
86	Alkoxybenzothiadiazole-Based Fullerene and Nonfullerene Polymer Solar Cells with High Shunt Resistance for Indoor Photovoltaic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3885-3894.	8.0	52
87	Efficient and Air-Stable Aqueous-Processed Organic Solar Cells and Transistors: Impact of Water Addition on Processability and Thin-Film Morphologies of Electroactive Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1802674.	19.5	52
88	Asymmetric selenophene-based non-fullerene acceptors for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1435-1441.	10.3	52
89	Efficient Exciton Diffusion in Organic Bilayer Heterojunctions with Nonfullerene Small Molecular Acceptors. <i>ACS Energy Letters</i> , 2020, 5, 1628-1635.	17.4	52
90	Enhanced Efficiency and Long-Term Stability of Perovskite Solar Cells by Synergistic Effect of Nonhygroscopic Doping in Conjugated Polymer-Based Hole-Transporting Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43846-43854.	8.0	51

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91	A Planar Cyclopentadithiophene-Benzothiadiazole-Based Copolymer with $\text{sp}^2$ -Hybridized Bis(alkylsulfanyl)methylene Substituents for Organic Thermoelectric Devices. <i>Macromolecules</i> , 2018, 51, 3360-3368.	4.8	51
92	Facile Synthesis of Polycyclic Aromatic Hydrocarbon (PAH)-Based Acceptors with Fine-Tuned Optoelectronic Properties: Toward Efficient Additive-Free Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803976.	19.5	51
93	Layered optimization strategy enables over 17.8% efficiency of layer-by-layer organic photovoltaics. <i>Chemical Engineering Journal</i> , 2022, 442, 136368.	12.7	50
94	Quinoxaline-thiophene based thick photovoltaic devices with an efficiency of $\sim 48\%$ . <i>Journal of Materials Chemistry A</i> , 2016, 4, 9967-9976.	10.3	49
95	Putting Order into PM6:Y6 Solar Cells to Reduce the Langevin Recombination in 400-nm Thick Junction. <i>Solar Rrl</i> , 2020, 4, 2000498.	5.8	49
96	Donor engineered Deep-Blue emitters for tuning luminescence mechanism in Solution-Processed OLEDs. <i>Chemical Engineering Journal</i> , 2021, 416, 129185.	12.7	49
97	Photocurrent Extraction Efficiency near Unity in a Thick Polymer Bulk Heterojunction. <i>Advanced Functional Materials</i> , 2016, 26, 3324-3330.	14.9	48
98	New M- and V-shaped perylene diimide small molecules for high-performance nonfullerene polymer solar cells. <i>Chemical Communications</i> , 2016, 52, 8873-8876.	4.1	48
99	Multiply Charged Conjugated Polyelectrolytes as a Multifunctional Interlayer for Efficient and Scalable Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2002333.	21.0	48
100	Highly stable photomultiplication-type organic photodetectors with single polymers containing intramolecular traps as the active layer. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7822-7830.	5.5	47
101	Excellent Long-Term Stability of Power Conversion Efficiency in Non-Fullerene-Based Polymer Solar Cells Bearing Tricyanovinylene-Functionalized n-Type Small Molecules. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8838-8847.	8.0	46
102	Synthesis and characterization of indeno[1,2-b]fluorene-based low bandgap copolymers for photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 1577.	6.7	45
103	Facile one-pot polymerization of a fully conjugated donor-acceptor block copolymer and its application in efficient single component polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21280-21289.	10.3	45
104	Heteroatom substitution-induced asymmetric A-D-A type non-fullerene acceptor for efficient organic solar cells. <i>Journal of Energy Chemistry</i> , 2020, 40, 144-150.	12.9	45
105	Spectroscopically tracking charge separation in polymer:fullerene blends with a three-phase morphology. <i>Energy and Environmental Science</i> , 2015, 8, 2713-2724.	30.8	44
106	Conjugated Polyelectrolytes as Multifunctional Passivating and Hole-Transporting Layers for Efficient Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2019, 31, e1900067.	21.0	44
107	Triimide-Functionalized n-Type Polymer Semiconductors Enabling All-Polymer Solar Cells with Power Conversion Efficiencies Approaching 9%. <i>Solar Rrl</i> , 2019, 3, 1900107.	5.8	43
108	Achieving 17.5% efficiency for polymer solar cells via a donor and acceptor layered optimization strategy. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5489-5496.	5.5	43



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109	Aqueous-Soluble Naphthalene Diimide-Based Polymer Acceptors for Efficient and Air-Stable All-Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45038-45047.	8.0	42
110	Fluorine Substituted Bithiophene Imide-Based n-Type Polymer Semiconductor for High-Performance Organic Thin-Film Transistors and All-Polymer Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800265.	5.8	42
111	Toward Efficient All-Polymer Solar Cells via Halogenation on Polymer Acceptors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33028-33038.	8.0	42
112	Boosted Efficiency Over 18.1% of Polymer Solar Cells by Employing Large Extinction Coefficients Material as the Third Component. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200345.	3.9	42
113	Non-Fullerene Organic Solar Cells Based on Benzo[1,2-b:4,5-b']difuran-Conjugated Polymer with 14% Efficiency. <i>Advanced Functional Materials</i> , 2020, 30, 1906809.	14.9	41
114	Highly Efficient Ternary All-Polymer Solar Cells with Enhanced Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2008494.	14.9	41
115	A Top-Down Strategy to Engineer Active Layer Morphology for Highly Efficient and Stable All-Polymer Solar Cells. <i>Advanced Materials</i> , 2022, 34, .	21.0	41
116	High-Performance Eight-Membered Indacenodithiophene-Based Asymmetric A-D-A Type Non-Fullerene Acceptors. <i>Solar Rrl</i> , 2019, 3, 1800246.	5.8	40
117	Quinoxaline-Based Wide Band Gap Polymers for Efficient Nonfullerene Organic Solar Cells with Large Open-Circuit Voltages. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23235-23246.	8.0	39
118	Recent Advances in Nonfullerene Acceptor-Based Layer-by-Layer Organic Solar Cells Using a Solution Process. <i>Advanced Science</i> , 2022, 9, .	11.2	39
119	Synthesis and characterization of cyclopentadithiophene-based low bandgap copolymers containing electron-deficient benzoselenadiazole derivatives for photovoltaic devices. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1423-1432.	2.3	38
120	High performance polymer light-emitting diodes with N-type metal oxide/conjugated polyelectrolyte hybrid charge transport layers. <i>Applied Physics Letters</i> , 2011, 99, 163305.	3.3	38
121	Improved photovoltaic performance of a nonfullerene acceptor based on a benzo[ <i>b</i> ]thiophene fused end group with extended $\pi$ -conjugation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9822-9830.	10.3	38
122	Sky-Blue-Emissive Perovskite Light-Emitting Diodes: Crystal Growth and Interfacial Control Using Conjugated Polyelectrolytes as a Hole-Transporting Layer. <i>ACS Nano</i> , 2020, 14, 13246-13255.	14.6	38
123	Optimization of side chains in alkylthiophene-substituted benzo[1,2-b:4,5-b']dithiophene-based photovoltaic polymers. <i>Polymer Chemistry</i> , 2015, 6, 2752-2760.	3.9	37
124	Naphthobistriazole-based wide bandgap donor polymers for efficient non-fullerene organic solar cells: Significant fine-tuning absorption and energy level by backbone fluorination. <i>Nano Energy</i> , 2018, 53, 258-269.	16.0	37
125	Backbone Conformation Tuning of Carboxylate-Functionalized Wide Band Gap Polymers for Efficient Non-Fullerene Organic Solar Cells. <i>Macromolecules</i> , 2019, 52, 341-353.	4.8	37
126	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. <i>Chemistry of Materials</i> , 2021, 33, 7254-7262.	6.7	35



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127	Recent advances in n-type organic thermoelectric materials, dopants, and doping strategies. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6114-6140.	5.5	35
128	Aqueous Soluble Fullerene Acceptors for Efficient Eco-Friendly Polymer Solar Cells Processed from Benign Ethanol/Water Mixtures. <i>Chemistry of Materials</i> , 2018, 30, 5663-5672.	6.7	34
129	Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 2196-2202.	17.4	34
130	Asymmetric A-type nonfullerene small molecule acceptors for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19348-19354.	10.3	33
131	Achieving a High Fill Factor and Stability in Perylene Diimide-Based Polymer Solar Cells Using the Molecular Lock Effect between 4,4'-Bipyridine and a Tri(8-hydroxyquinoline)aluminum(III) Core. <i>Advanced Functional Materials</i> , 2019, 29, 1902079.	14.9	33
132	Photophysical pathways in efficient bilayer organic solar cells: The importance of interlayer energy transfer. <i>Nano Energy</i> , 2021, 84, 105924.	16.0	33
133	Bichalcogenophene Imide-Based Homopolymers: Chalcogen-Atom Effects on the Optoelectronic Property and Device Performance in Organic Thin-Film Transistors. <i>Macromolecules</i> , 2019, 52, 7301-7312.	4.8	32
134	Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 893-900.	5.9	32
135	Biofilm development of <i>Bacillus siamensis</i> ATKU1 on pristine short chain low-density polyethylene: A case study on microbe-microplastics interaction. <i>Journal of Hazardous Materials</i> , 2021, 409, 124516.	12.4	32
136	High-efficiency organic solar cells enabled by an alcohol-washable solid additive. <i>Science China Chemistry</i> , 2021, 64, 2161-2168.	8.2	32
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147	Novel molecular triad exhibiting aggregation-induced emission and thermally activated fluorescence for efficient non-doped organic light-emitting diodes. <i>Chemical Communications</i> , 2019, 55, 9475-9478.	4.1	28
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149	Simultaneously improving the photovoltaic parameters of organic solar cells via isomerization of benzo[ <i>b</i> ]benzo[4,5]thieno[2,3- <i>d</i> ]thiophene-based octacyclic non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9684-9692.	10.3	28
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