Han Young Woo

List of Publications by Year
in descending order

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	Fine-tuned crystallinity of polymerized non-fullerene acceptor via molecular engineering towards efficient all-polymer solar cell. Chemical Engineering Journal, 2022, 428, 131232.	12.7	20
2	Over 17.7% efficiency ternary-blend organic solar cells with low energy-loss and good thickness-tolerance. Chemical Engineering Journal, 2022, 428, 129276.	12.7	110
3	Synergistic Effect of Multiâ€Walled Carbon Nanotubes and Ladderâ€Type Conjugated Polymers on the Performance of Nâ€Type Organic Electrochemical Transistors. Advanced Functional Materials, 2022, 32, 2106447.	14.9	14
4	Influence of Molecular Weight on the Organic Electrochemical Transistor Performance of Ladderâ€Type Conjugated Polymers. Advanced Materials, 2022, 34, e2106235.	21.0	86
5	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. Nano Energy, 2022, 92, 106681.	16.0	97
6	Smart Ternary Strategy in Promoting the Performance of Polymer Solar Cells Based on Bulkâ€Heterojunction or Layerâ€Byâ€Layer Structure. Small, 2022, 18, e2104215.	10.0	100
7	Triphenylamineâ€Based Conjugated Polyelectrolyte as a Hole Transport Layer for Efficient and Scalable Perovskite Solar Cells. Small, 2022, 18, e2104933.	10.0	6
8	Intramolecular Noncovalent Interactionâ€Enabled Dopantâ€Free Holeâ€Transporting Materials for Highâ€Performance Inverted Perovskite Solar Cells. Angewandte Chemie, 2022, 134, .	2.0	18
9	Intramolecular Noncovalent Interactionâ€Enabled Dopantâ€Free Holeâ€Transporting Materials for Highâ€Performance Inverted Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, e202113749.	13.8	72
10	NIR-Absorbing Electron Acceptor Based on a Selenium-Heterocyclic Core Attaching to Phenylalkyl Side Chains for Polymer Solar Cells with 17.3% Efficiency. ACS Applied Materials & Interfaces, 2022, 14, 7082-7092.	8.0	22
11	High-efficiency solution-processed green thermally activated delayed fluorescence OLEDs using a polymer-small molecule mixed host. Polymer Chemistry, 2022, 13, 1824-1830.	3.9	11
12	Recent advances in n-type organic thermoelectric materials, dopants, and doping strategies. Journal of Materials Chemistry C, 2022, 10, 6114-6140.	5.5	35
13	Achieving 17.5% efficiency for polymer solar cells via a donor and acceptor layered optimization strategy. Journal of Materials Chemistry C, 2022, 10, 5489-5496.	5.5	43
14	Backbone Configuration and Electronic Property Tuning of Imideâ€Functionalized Ladderâ€Type Heteroarenesâ€Based Polymer Acceptors for Efficient Allâ€Polymer Solar Cells. Advanced Functional Materials, 2022, 32, .	14.9	12
15	Isogenous Asymmetricâ€“Symmetric Acceptors Enable Efficient Ternary Organic Solar Cells with Thin and 300Ânm Thick Active Layers Simultaneously. Advanced Functional Materials, 2022, 32, .	14.9	75
16	Elastomeric Indoor Organic Photovoltaics with Superb Photothermal Endurance. Advanced Functional Materials, 2022, 32, .	14.9	14
17	Sideâ€Chain Substituents on Benzotriazoleâ€Based Polymer Acceptors Affecting the Performance of Allâ€Polymer Solar Cells. Macromolecular Rapid Communications, 2022, 43, e2200062.	3.9	12
18	Ferroelectric Polymer Drives Performance Enhancement of Nonâ€fullerene Organic Solar Cells. Angewandte Chemie, 2022, 134, .	2.0	3

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19	Ferroelectric Polymer Drives Performance Enhancement of Nonâ€fullerene Organic Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	13.8	29
20	Block copolymer compatibilizer for efficient and stable nonfullerene organic solar cells. Chemical Engineering Journal, 2022, 438, 135543.	12.7	26
21	Homogeneously Miscible Fullerene inducing Vertical Gradient in Perovskite Thinâ€Film toward Highly Efficient Solar Cells. Advanced Energy Materials, 2022, 12, .	19.5	28
22	Boosted Efficiency Over 18.1% of Polymer Solar Cells by Employing Large Extinction Coefficients Material as the Third Component. Macromolecular Rapid Communications, 2022, 43, e2200345.	3.9	42
23	Layered optimization strategy enables over 17.8% efficiency of layer-by-layer organic photovoltaics. Chemical Engineering Journal, 2022, 442, 136368.	12.7	50
24	Highly stable photomultiplication-type organic photodetectors with single polymers containing intramolecular traps as the active layer. Journal of Materials Chemistry C, 2022, 10, 7822-7830.	5.5	47
25	Vertically optimized phase separation with improved exciton diffusion enables efficient organic solar cells with thick active layers. Nature Communications, 2022, 13, 2369.	12.8	122
26	Revisiting the Classical Wideâ€Bandgap HOMO and Random Copolymers for Indoor Artificial Light Photovoltaics. Macromolecular Rapid Communications, 2022, 43, e2200279.	3.9	6
27	Efficient Semitransparent Layerâ€byâ€Layer Organic Photovoltaics via Optimizing Wide Bandgap and Narrow Absorption Polymer Layer Thickness. Solar Rrl, 2022, 6, .	5.8	55
28	Over 16% efficiency all-polymer solar cells by sequential deposition. Science China Chemistry, 2022, 65, 1157-1163.	8.2	58
29	Ionic Dopant-Free Polymer Alloy Hole Transport Materials for High-Performance Perovskite Solar Cells. Journal of the American Chemical Society, 2022, 144, 9500-9509.	13.7	85
30	Regioselectivity control of block copolymers for high-performance single-material organic solar cells. Journal of Materials Chemistry A, 2022, 10, 12997-13004.	10.3	9
31	Polymer solar cells made with photocrosslinkable conjugated donorâ€“acceptor block copolymers: improvement in the thermal stability and morphology with a single-component active layer. Polymer Chemistry, 2022, 13, 3335-3342.	3.9	3
32	Natural Product Betulinâ€Based Insulating Polymer Filler in Organic Solar Cells. Solar Rrl, 2022, 6, .	5.8	7
33	Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells. ACS Energy Letters, 2022, 7, 2196-2202.	17.4	34
34	Improved Photovoltaic Performance of Ternary All-Polymer Solar Cells by Incorporating a New Y6-based Polymer Acceptor and PC61BM. Macromolecular Research, 2022, 30, 587-596.	2.4	8
35	Achieving 15.81% and 15.29% efficiency of all-polymer solar cells based on layer-by-layer and bulk heterojunction structures. Journal of Materials Chemistry A, 2022, 10, 13492-13499.	10.3	70
36	A Topâ€Down Strategy to Engineer ActiveLayer Morphology for Highly Efficient and Stable Allâ€Polymer Solar Cells. Advanced Materials, 2022, 34, .	21.0	41

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37	Grapheneâ€Based Intrinsically Stretchable 2Dâ€Contact Electrodes for Highly Efficient Organic Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, .	21.0	22
38	Intramolecular Chloroâ€“Sulfur Interaction and Asymmetric Sideâ€Chain Isomerization to Balance Crystallinity and Miscibility in Allâ€Smallâ€Molecule Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	13.8	29
39	Intramolecular Chloroâ€“Sulfur Interaction and Asymmetric Sideâ€Chain Isomerization to Balance Crystallinity and Miscibility in Allâ€Smallâ€Molecule Solar Cells. Angewandte Chemie, 2022, 134, .	2.0	3
40	Recent Advances in Nonfullerene Acceptorâ€Based Layerâ€byâ€Layer Organic Solar Cells Using a Solution Process. Advanced Science, 2022, 9, .	11.2	39
41	Uniform Silver Nanowire Patterned Electrode on Robust PEN Substrate Using Poly(2-hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock	8.0	3
42	15.28% efficiency of conventional layer-by-layer all-polymer solar cells superior to bulk heterojunction or inverted cells. Chemical Engineering Journal, 2022, 450, 138146.	12.7	18
43	Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. Materials Chemistry Frontiers, 2021, 5, 893-900.	5.9	32
44	Quantifying Quasiâ€Fermi Level Splitting and Openâ€Circuit Voltage Losses in Highly Efficient Nonfullerene Organic Solar Cells. Solar Rrl, 2021, 5, 2000649.	5.8	19
45	Engineering of dendritic dopant-free hole transport molecules: enabling ultrahigh fill factor in perovskite solar cells with optimized dendron construction. Science China Chemistry, 2021, 64, 41-51.	8.2	55
46	Degenerately Doped Semiâ€Crystalline Polymers for High Performance Thermoelectrics. Advanced Functional Materials, 2021, 31, 2006900.	14.9	31
47	Biofilm development of Bacillus siamensis ATKU1 on pristine short chain low-density polyethylene: A case study on microbe-microplastics interaction. Journal of Hazardous Materials, 2021, 409, 124516.	12.4	32
48	Over 17% Efficiency Binary Organic Solar Cells with Photoresponses Reaching 1000 nm Enabled by Selenophene-Fused Nonfullerene Acceptors. ACS Energy Letters, 2021, 6, 9-15.	17.4	141
49	Asymmetric Acceptors Enabling Organic Solar Cells to Achieve an over 17% Efficiency: Conformation Effects on Regulating Molecular Properties and Suppressing Nonradiative Energy Loss. Advanced Energy Materials, 2021, 11, 2003177.	19.5	114
50	Highly Efficient Ternary Allâ€Polymer Solar Cells with Enhanced Stability. Advanced Functional Materials, 2021, 31, 2008494.	14.9	41
51	Cyano-Functionalized Bithiophene Imide-Based n-Type Polymer Semiconductors: Synthesis, Structureâ€“Property Correlations, and Thermoelectric Performance. Journal of the American Chemical Society, 2021, 143, 1539-1552.	13.7	134
52	Rational compatibility in a ternary matrix enables all-small-molecule organic solar cells with over 16% efficiency. Energy and Environmental Science, 2021, 14, 3945-3953.	30.8	124
53	Selenium-containing two-dimensional conjugated fused-ring electron acceptors for enhanced crystal packing, charge transport, and photovoltaic performance. Journal of Materials Chemistry A, 2021, 9, 15665-15677.	10.3	18
54	Synergistic effect of the selenophene-containing central core and the regioisomeric monochlorinated terminals on the molecular packing, crystallinity, film morphology, and photovoltaic performance of selenophene-based nonfullerene acceptors. Journal of Materials Chemistry C, 2021, 9, 1923-1935.	5.5	21

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55	Progress in morphology control from fullerene to nonfullerene acceptors for scalable high-performance organic photovoltaics. Journal of Materials Chemistry A, 2021, 9, 24729-24758.	10.3	28
56	Design of ultra-high luminescent polymers for organic photovoltaic cells with low energy loss. Chemical Communications, 2021, 57, 9132-9135.	4.1	12
57	Indoor Organic Photovoltaics: Optimal Cell Design Principles with Synergistic Parasitic Resistance and Optical Modulation Effect. Advanced Energy Materials, 2021, 11, 2003103.	19.5	62
58	Terpolymer acceptors based on bithiophene imide for all-polymer solar cells. Dyes and Pigments, 2021, 186, 109049.	3.7	5
59	Ternary Organic Photovoltaic Cells Exhibiting 17.59% Efficiency with Two Compatible Y6 Derivations as Acceptor. Solar Rrl, 2021, 5, 2100007.	5.8	81
60	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. Journal of the American Chemical Society, 2021, 143, 2665-2670.	13.7	245
61	Nonhalogenated Solvent-Processed High-Performance Indoor Photovoltaics Made of New Conjugated Terpolymers with Optimized Monomer Compositions. ACS Applied Materials & Interfaces, 2021, 13, 13487-13498.	8.0	14
62	Hysteresis Behavior of the Donorâ€“Acceptor-Type Ambipolar Semiconductor for Non-Volatile Memory Applications. Micromachines, 2021, 12, 301.	2.9	3
63	A high-conductivity n-type polymeric ink for printed electronics. Nature Communications, 2021, 12, 2354.	12.8	120
64	Complementary absorbing ternary blend containing structural isomeric donor polymers for improving the performance of PC61BM-based indoor photovoltaics. Polymer, 2021, 221, 123606.	3.8	3
65	Improved Stability of All-Polymer Solar Cells Using Crosslinkable Donor and Acceptor Polymers Bearing Vinyl Moieties in the Side-Chains. ACS Applied Materials & Interfaces, 2021, 13, 16754-16765.	8.0	11
66	Regulating the Aggregation of Unfused Nonâ€Fullerene Acceptors via Molecular Engineering towards Efficient Polymer Solar Cells. ChemSusChem, 2021, 14, 3579-3589.	6.8	28
67	Rational Molecular Design of Azaacene-Based Narrowband Green-Emitting Fluorophores: Modulation of Spectral Bandwidth and Vibronic Transitions. ACS Applied Materials & Interfaces, 2021, 13, 26227-26236.	8.0	27
68	Explaining the Fillâ€Factor and Photocurrent Losses of Nonfullerene Acceptorâ€Based Solar Cells by Probing the Longâ€Range Charge Carrier Diffusion and Drift Lengths. Advanced Energy Materials, 2021, 11, 2100804.	19.5	23
69	Fullereneâ€“non-fullerene hybrid acceptors for enhanced light absorption and electrical properties in organic solar cells. Materials Today Energy, 2021, 20, 100651.	4.7	7
70	Effect of Fused Thiophene Bridges on the Efficiency of Non-Fullerene Polymer Solar Cells made with Conjugated Donor Copolymers Containing Alkyl Thiophene-3-Carboxylate. Macromolecular Research, 2021, 29, 435-442.	2.4	10
71	Multiâ€Selenopheneâ€Containing Narrow Bandgap Polymer Acceptors for Allâ€Polymer Solar Cells with over 15â€‰% Efficiency and High Reproducibility. Angewandte Chemie, 2021, 133, 16071-16079.	2.0	6
72	Multiâ€Selenopheneâ€Containing Narrow Bandgap Polymer Acceptors for Allâ€Polymer Solar Cells with over 15â€‰% Efficiency and High Reproducibility. Angewandte Chemie - International Edition, 2021, 60, 15935-15943.	13.8	125

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73	Narrowâ€Bandgap Singleâ€Component Polymer Solar Cells with Approaching 9% Efficiency. Advanced Materials, 2021, 33, e2101295.	21.0	53
74	Photophysical pathways in efficient bilayer organic solar cells: The importance of interlayer energy transfer. Nano Energy, 2021, 84, 105924.	16.0	33
75	Ultraâ€Deepâ€Blue Aggregationâ€Induced Delayed Fluorescence Emitters: Achieving Nearly 16% EQE in Solutionâ€Processed Nondoped and Doped OLEDs with CIE_yÂ< 0.1. Advanced Functional Materials, 2021, 31, 2102588.	14.9	69
76	A Synergistic Strategy of Manipulating the Number of Selenophene Units and Dissymmetric Central Core of Small Molecular Acceptors Enables Polymer Solar Cells with 17.5â€‰% Efficiency. Angewandte Chemie - International Edition, 2021, 60, 19241-19252.	13.8	129
77	A Synergistic Strategy of Manipulating the Number of Selenophene Units and Dissymmetric Central Core of Small Molecular Acceptors Enables Polymer Solar Cells with 17.5â€‰% Efficiency. Angewandte Chemie, 2021, 133, 19390-19401.	2.0	22
78	Donor engineered Deep-Blue emitters for tuning luminescence mechanism in Solution-Processed OLEDs. Chemical Engineering Journal, 2021, 416, 129185.	12.7	49
79	Interfacial Defects Change the Correlation between Photoluminescence, Ideality Factor, and Openâ€Circuit Voltage in Perovskite Solar Cells. Small, 2021, 17, e2101839.	10.0	16
80	Recent advances in organic luminescent materials with narrowband emission. NPG Asia Materials, 2021, 13, .	7.9	209
81	Charge-Transfer Effect and Enhanced Photoresponsivity of WS₂- and MoSe₂-Based Field Effect Transistors with Ï€-Conjugated Polyelectrolyte. ACS Applied Materials & Interfaces, 2021, 13, 40880-40890.	8.0	9
82	Fullerene-Based Triads with Controlled Alkyl Spacer Length as Photoactive Materials for Single-Component Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 43174-43185.	8.0	8
83	Completely foldable electronics based on homojunction polymer transistors and logics. Science Advances, 2021, 7, .	10.3	14
84	Fused Bithiophene Imide Dimerâ€Based nâ€Type Polymers for Highâ€Performance Organic Electrochemical Transistors. Angewandte Chemie - International Edition, 2021, 60, 24198-24205.	13.8	60
85	Fused Bithiophene Imide Dimerâ€Based nâ€Type Polymers for Highâ€Performance Organic Electrochemical Transistors. Angewandte Chemie, 2021, 133, 24400-24407.	2.0	14
86	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. Chemistry of Materials, 2021, 33, 7254-7262.	6.7	35
87	Efficient green-emitting perovskite light-emitting diodes using a conjugated polyelectrolyte additive. Materials Today Energy, 2021, 21, 100755.	4.7	4
88	A pHâ€Neutral Polyelectrolyte Hole Transport Layer for Improved Energy Band Structure at the Anode/PTB7 Junction and Improved Solar Cell Performance. Solar Rrl, 2021, 5, 2100521.	5.8	4
89	New hole transport styrene polymers bearing highly Ï€-extended conjugated side-chain moieties for high-performance solution-processable thermally activated delayed fluorescence OLEDs. Polymer Chemistry, 2021, 12, 1692-1699.	3.9	5
90	Approaching 18% efficiency of ternary organic photovoltaics with wide bandgap polymer donor and well compatible Y6â€‰:â€‰Y6-1O as acceptor. National Science Review, 2021, 8, nwaa305.	9.5	216

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91	Exciton energy transfer and bi-exciton annihilation in the emitting layers of thermally activated delayed fluorescence-based OLEDs. Journal of Materials Chemistry C, 2021, 9, 15141-15149.	5.5	4
92	Ternary polymer solar cells with iridium-based polymer PM6Ir1 as a donor and N₃:ITIC-Th as an acceptor exhibiting over 17.2% efficiency. Sustainable Energy and Fuels, 2021, 5, 5825-5832.	4.9	12
93	Novel V-Shaped Bipolar Host Materials for Solution-Processed Thermally Activated Delayed Fluorescence OLEDs. ACS Applied Materials & Interfaces, 2021, 13, 49076-49084.	8.0	21
94	Optimization of solvent swelling for efficient organic solar cells via sequential deposition. Materials Reports Energy, 2021, 1, 100063.	3.2	5
95	Enhanced photomultiplication of organic photodetectors via phosphorescent material incorporation. Journal of Materials Chemistry C, 2021, 9, 16918-16924.	5.5	2
96	High-efficiency organic solar cells enabled by an alcohol-washable solid additive. Science China Chemistry, 2021, 64, 2161-2168.	8.2	32
97	Transition metal-catalysed molecular n-doping of organic semiconductors. Nature, 2021, 599, 67-73.	27.8	152
98	Aryl-Annulated [3,2-a] Carbazole-Based Deep-Blue Soluble Emitters for High-Efficiency Solution-Processed Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes with CIEy <0.1. ACS Applied Materials & Interfaces, 2021, 13, 61454-61462.	8.0	27
99	Fullerene-Based Photoactive A-D-A Triads for Single-Component Organic Solar Cells: Incorporation of Non-Fused Planar Conjugated Core. Macromolecular Research, 2021, 29, 871-881.	2.4	10
100	Heteroatom substitution-induced asymmetric Aâ€“Dâ€“A type non-fullerene acceptor for efficient organic solar cells. Journal of Energy Chemistry, 2020, 40, 144-150.	12.9	45
101	Organic solar cells for indoor power generation. Science China Chemistry, 2020, 63, 1-2.	8.2	5
102	Modeling and implementation of tandem polymer solar cells using wideâ€bandgap front cells. , 2020, 2, 131-142.		9
103	Significantly Improved Morphology and Efficiency of Nonhalogenated Solventâ€Processed Solar Cells Derived from a Conjugated Donorâ€“Acceptor Block Copolymer. Advanced Science, 2020, 7, 1902470.	11.2	55
104	Aqueous-Alcohol-Processable High-Mobility Semiconducting Copolymers with Engineered Oligo(ethylene glycol) Side Chains. Chemistry of Materials, 2020, 32, 1111-1119.	6.7	22
105	Nonâ€Fullerene Organic Solar Cells Based on Benzo[1,2â€b:4,5â€bâ€²]difuranâ€Conjugated Polymer with 14% Efficiency. Advanced Functional Materials, 2020, 30, 1906809.	14.9	41
106	Subtle Polymer Donor and Molecular Acceptor Design Enable Efficient Polymer Solar Cells with a Very Small Energy Loss. Advanced Functional Materials, 2020, 30, 1907570.	14.9	89
107	Closely Packed Polypyrroles via Ionic Cross-Linking: Correlation of Molecular Structureâ€“Morphologyâ€“Thermoelectric Properties. ACS Applied Materials & Interfaces, 2020, 12, 1110-1119.	8.0	21
108	N-type conjugated polymer as efficient electron transport layer for planar inverted perovskite solar cells with power conversion efficiency of 20.86%. Nano Energy, 2020, 68, 104363.	16.0	58

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109	Pyrimidine-based bipolar host materials for high efficiency solution processed green thermally activated delayed fluorescence OLEDs. Journal of Materials Chemistry C, 2020, 8, 2196-2204.	5.5	15
110	Universal polymeric bipolar hosts for highly efficient solution-processable blue and green thermally activated delayed fluorescence OLEDs. Journal of Materials Chemistry C, 2020, 8, 16048-16056.	5.5	14
111	Progress in Materials, Solution Processes, and Longâ€Term Stability for Largeâ€Area Organic Photovoltaics. Advanced Materials, 2020, 32, e2002217.	21.0	124
112	Improved Interfacial Crystallization by Synergic Effects of Precursor Solution Stoichiometry and Conjugated Polyelectrolyte Interlayer for High Open-Circuit Voltage of Perovskite Photovoltaic Diodes. ACS Applied Materials & Interfaces, 2020, 12, 12328-12336.	8.0	17
113	High-Performance, Solution-Processable Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes Realized via the Adjustment of the Composition of the Organoboron Acceptor Monomer in Copolymer Host Materials. ACS Applied Materials & Interfaces, 2020, 12, 35300-35310.	8.0	21
114	Effects of the Electron-Deficient Third Components in n-Type Terpolymers on Morphology and Performance of All-Polymer Solar Cells. Organic Materials, 2020, 02, 214-222.	2.0	2
115	Fluorinated biselenophene-naphthalenediimide copolymers for efficient all-polymer solar cells. Dyes and Pigments, 2020, 183, 108721.	3.7	2
116	A Highly Conductive Conjugated Polyelectrolyte for Flexible Organic Thermoelectrics. ACS Applied Energy Materials, 2020, 3, 8667-8675.	5.1	11
117	Polymer Solar Cells: Highâ€Performance Allâ€Polymer Solar Cells Enabled by nâ€Type Polymers with an Ultranarrow Bandgap Down to 1.28 eV (Adv. Mater. 30/2020). Advanced Materials, 2020, 32, 2070226.	21.0	2
118	C₇₀-based aqueous-soluble fullerene for the water composition-tolerant performance of eco-friendly polymer solar cells. Journal of Materials Chemistry C, 2020, 8, 15224-15233.	5.5	11
119	Optimization of Thermoelectric Properties of Polymers by Incorporating Oligoethylene Glycol Side Chains and Sequential Solution Doping with Preannealing Treatment. Macromolecules, 2020, 53, 7063-7072.	4.8	25
120	Eco-Friendly Polymer Solar Cells: Advances in Green-Solvent Processing and Material Design. ACS Nano, 2020, 14, 14493-14527.	14.6	150
121	Terminal alkyl substitution in an Aâ€“Dâ€“A-type nonfullerene acceptor: simultaneous improvements in the open-circuit voltage and short-circuit current for efficient indoor power generation. Journal of Materials Chemistry A, 2020, 8, 23894-23905.	10.3	18
122	A Terpolymer Acceptor Enabling Allâ€Polymer Solar Cells with a Broad Donor:Acceptor Composition Tolerance and Enhanced Stability. Solar Rrl, 2020, 4, 2000436.	5.8	7
123	Multifunctional Charge Transporting Materials for Perovskite Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e2002176.	21.0	55
124	A-D-A Type Semiconducting Small Molecules with Bis(alkylsulfanyl)methylene Substituents and Control of Charge Polarity for Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 41842-41851.	8.0	16
125	Putting Order into PM6:Y6 Solar Cells to Reduce the Langevin Recombination in 400â€‰nm Thick Junction. Solar Rrl, 2020, 4, 2000498.	5.8	49
126	Solutionâ€Processed Organic Solar Cells with High Openâ€Circuit Voltage of 1.3 V and Low Nonâ€Radiative Voltage Loss of 0.16 V. Advanced Materials, 2020, 32, e2002122.	21.0	168

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127	Fluorination Position: A Study of the Optoelectronic Properties of Two Regioisomers Using Spectroscopic and Computational Techniques. Journal of Physical Chemistry A, 2020, 124, 7685-7691.	2.5	2
128	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. Small Methods, 2020, 4, 2000687.	8.6	86
129	Two Compatible Polymer Donors Enabling Ternary Organic Solar Cells with a Small Nonradiative Energy Loss and Broad Composition Tolerance. Solar Rrl, 2020, 4, 2000396.	5.8	22
130	Rational design of a main chain conjugated copolymer having donorâ€“acceptor heterojunctions and its application in indoor photovoltaic cells. Journal of Materials Chemistry A, 2020, 8, 20091-20100.	10.3	25
131	Sky-Blue-Emissive Perovskite Light-Emitting Diodes: Crystal Growth and Interfacial Control Using Conjugated Polyelectrolytes as a Hole-Transporting Layer. ACS Nano, 2020, 14, 13246-13255.	14.6	38
132	Improving the Photostability of Small-Molecule-Based Organic Photovoltaics by Providing a Charge Percolation Pathway of Crystalline Conjugated Polymer. Polymers, 2020, 12, 2598.	4.5	4
133	2D Starâ€Shaped Nonâ€Fullerene Electron Acceptors with Modulation of Jâ€/Hâ€Type Aggregations: Molecular Designâ€“Morphologyâ€“Electrical Property Correlation. Advanced Materials Technologies, 2020, 5, 2000174.	5.8	4
134	Reduced Nonradiative Recombination Energy Loss Enabled Efficient Polymer Solar Cells via Tuning Alkyl Chain Positions on Pendent Benzene Units of Polymers. ACS Applied Materials & Interfaces, 2020, 12, 24184-24191.	8.0	7
135	Ultranarrow Bandgap Naphthalenediimideâ€Dialkylbifuranâ€Based Copolymers with Highâ€Performance Organic Thinâ€Film Transistors and Allâ€Polymer Solar Cells. Macromolecular Rapid Communications, 2020, 41, 2000144.	3.9	11
136	Fine regulation of crystallisation tendency to optimize the BHJ nanostructure and performance of polymer solar cells. Nanoscale, 2020, 12, 12928-12941.	5.6	9
137	Effect of Extended Ï€-Conjugation of Central Cores on Photovoltaic Properties of Asymmetric Wide-Bandgap Nonfullerene Acceptors. Organic Materials, 2020, 02, 173-181.	2.0	2
138	Distannylated Bithiophene Imide: Enabling Highâ€Performance nâ€Type Polymer Semiconductors with an Acceptorâ€“Acceptor Backbone. Angewandte Chemie, 2020, 132, 14557-14565.	2.0	25
139	Distannylated Bithiophene Imide: Enabling Highâ€Performance nâ€Type Polymer Semiconductors with an Acceptorâ€“Acceptor Backbone. Angewandte Chemie - International Edition, 2020, 59, 14449-14457.	13.8	72
140	Multiply Charged Conjugated Polyelectrolytes as a Multifunctional Interlayer for Efficient and Scalable Perovskite Solar Cells. Advanced Materials, 2020, 32, e2002333.	21.0	48
141	Fuller-Rylenes: Paving the Way for Promising Acceptors. ACS Applied Materials & Interfaces, 2020, 12, 29513-29519.	8.0	4
142	Highâ€Performance Allâ€Polymer Solar Cells Enabled by nâ€Type Polymers with an Ultranarrow Bandgap Down to 1.28 eV. Advanced Materials, 2020, 32, e2001476.	21.0	103
143	Anionic Conjugated Polyelectrolytes for FRETâ€based Imaging of Cellular Membrane Potential. Photochemistry and Photobiology, 2020, 96, 834-844.	2.5	5
144	Organic solar cells based on chlorine functionalized benzo[1,2-b:4,5-bâ€²]difuran-benzo[1,2-c:4,5-câ€²]dithiophene-4,8-dione copolymer with efficiency exceeding 13%. Science China Chemistry, 2020, 63, 483-489.	8.2	8

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145	Efficient Fusedâ€Ring Extension of Aâ€“Dâ€“Aâ€²Type Nonâ€Fullerene Acceptors by a Symmetric Replicating Core Unit Strategy. Chemistry - A European Journal, 2020, 26, 12411-12417.	3.3	13
146	Regioisomeric Polythiophene Derivatives: Synthesis and Structure-Property Relationships for Organic Electronic Devices. Macromolecular Research, 2020, 28, 772-781.	2.4	4
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