Yongfang Li

List of Publications by Year
in descending order

513	58,561	1163 111	1250 226
papers	citations	h-index	g-index

521	521	521	23008
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. Joule, 2019, 3, 1140-1151.	11.7	4,052
2	An Electron Acceptor Challenging Fullerenes for Efficient Polymer Solar Cells. Advanced Materials, 2015, 27, 1170-1174.	11.1	3,365
3	Molecular Design of Photovoltaic Materials for Polymer Solar Cells: Toward Suitable Electronic Energy Levels and Broad Absorption. Accounts of Chemical Research, 2012, 45, 723-733.	7.6	2,584
4	Small molecule semiconductors for high-efficiency organic photovoltaics. Chemical Society Reviews, 2012, 41, 4245.	18.7	1,601
5	Indeneâ˜’C₆₀Bisadduct: A New Acceptor for High-Performance Polymer Solar Cells. Journal of the American Chemical Society, 2010, 132, 1377-1382.	6.6	1,151
6	A High-Mobility Electron-Transport Polymer with Broad Absorption and Its Use in Field-Effect Transistors and All-Polymer Solar Cells. Journal of the American Chemical Society, 2007, 129, 7246-7247.	6.6	1,110
7	Bright, multicoloured light-emitting diodes based on quantum dots. Nature Photonics, 2007, 1, 717-722.	15.6	1,042
8	11.4% Efficiency non-fullerene polymer solar cells with trialkylsilyl substituted 2D-conjugated polymer as donor. Nature Communications, 2016, 7, 13651.	5.8	917
9	6.5% Efficiency of Polymer Solar Cells Based on poly(3â€hexylthiophene) and Indeneâ€C₆₀ Bisadduct by Device Optimization. Advanced Materials, 2010, 22, 4355-4358.	11.1	876
10	Side-Chain Isomerization on an n-type Organic Semiconductor ITIC Acceptor Makes 11.77% High Efficiency Polymer Solar Cells. Journal of the American Chemical Society, 2016, 138, 15011-15018.	6.6	826
11	Electrochemical properties of luminescent polymers and polymer light-emitting electrochemical cells. Synthetic Metals, 1999, 99, 243-248.	2.1	809
12	Non-Fullerene Polymer Solar Cells Based on Alkylthio and Fluorine Substituted 2D-Conjugated Polymers Reach 9.5% Efficiency. Journal of the American Chemical Society, 2016, 138, 4657-4664.	6.6	743
13	Perylene diimides: a thickness-insensitive cathode interlayer for high performance polymer solar cells. Energy and Environmental Science, 2014, 7, 1966.	15.6	672
14	Allâ€Polymer Solar Cells Based on Absorptionâ€Complementary Polymer Donor and Acceptor with High Power Conversion Efficiency of 8.27%. Advanced Materials, 2016, 28, 1884-1890.	11.1	670
15	A low cost and high performance polymer donor material for polymer solar cells. Nature Communications, 2018, 9, 743.	5.8	635
16	High-performance fullerene-free polymer solar cells with 6.31% efficiency. Energy and Environmental Science, 2015, 8, 610-616.	15.6	587
17	Flexible and Semitransparent Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1701791.	10.2	556
18	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. Nature Communications, 2016, 7, 10214.	5.8	534

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19	Controlled Synthesis and Optical Properties of Colloidal Ternary Chalcogenide CuInS₂ Nanocrystals. Chemistry of Materials, 2008, 20, 6434-6443.	3.2	519
20	Improvement of open-circuit voltage and photovoltaic properties of 2D-conjugated polymers by alkylthio substitution. Energy and Environmental Science, 2014, 7, 2276-2284.	15.6	493
21	Multifunctional Fullerene Derivative for Interface Engineering in Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 15540-15547.	6.6	490
22	Synthesis and electroluminescence of novel copolymers containing crown ether spacers. Journal of Materials Chemistry, 2003, 13, 800-806.	6.7	485
23	Constructing a Strongly Absorbing Lowâ€Bandgap Polymer Acceptor for Highâ€Performance Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 13503-13507.	7.2	468
24	Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. Nature Communications, 2020, 11, 2726.	5.8	467
25	Highly Emissive and Colorâ€Tunable CuInS₂â€Based Colloidal Semiconductor Nanocrystals: Offâ€Stoichiometry Effects and Improved Electroluminescence Performance. Advanced Functional Materials, 2012, 22, 2081-2088.	7.8	449
26	High efficiency polymer solar cells based on poly(3-hexylthiophene)/indene-C70 bisadduct with solvent additive. Energy and Environmental Science, 2012, 5, 7943.	15.6	400
27	Precise Control of Crystal Growth for Highly Efficient CsPbI2Br Perovskite Solar Cells. Joule, 2019, 3, 191-204.	11.7	398
28	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. Journal of the American Chemical Society, 2019, 141, 3073-3082.	6.6	362
29	Mapping Polymer Donors toward Highâ€Efficiency Fullerene Free Organic Solar Cells. Advanced Materials, 2017, 29, 1604155.	11.1	360
30	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	4.2	349
31	High Efficiency Polymer Solar Cells with Efficient Hole Transfer at Zero Highest Occupied Molecular Orbital Offset between Methylated Polymer Donor and Brominated Acceptor. Journal of the American Chemical Society, 2020, 142, 1465-1474.	6.6	344
32	Synergistic effect of fluorination on both donor and acceptor materials for high performance non-fullerene polymer solar cells with 13.5% efficiency. Science China Chemistry, 2018, 61, 531-537.	4.2	342
33	Side-chain engineering of high-efficiency conjugated polymer photovoltaic materials. Science China Chemistry, 2015, 58, 192-209.	4.2	334
34	Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. Energy and Environmental Science, 2020, 13, 2459-2466.	15.6	324
35	Polymerized Smallâ€Molecule Acceptors for Highâ€Performance Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 4422-4433.	7.2	318
36	Combination of Indene-C₆₀ Bis-Adduct and Cross-Linked Fullerene Interlayer Leading to Highly Efficient Inverted Polymer Solar Cells. Journal of the American Chemical Society, 2010, 132, 17381-17383.	6.6	307

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37	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. Journal of the American Chemical Society, 2017, 139, 5085-5094.	6.6	303
38	Improving the Ordering and Photovoltaic Properties by Extending <i>Ï€</i>â€“Conjugated Area of Electronâ€Donating Units in Polymers with Dâ€A Structure. Advanced Materials, 2012, 24, 3383-3389.	11.1	298
39	Fused Benzothiadiazole: A Building Block for nâ€Type Organic Acceptor to Achieve Highâ€Performance Organic Solar Cells. Advanced Materials, 2019, 31, e1807577.	11.1	297
40	Highâ€Yield Synthesis and Electrochemical and Photovoltaic Properties of Indeneâ€C₇₀ Bisadduct. Advanced Functional Materials, 2010, 20, 3383-3389.	7.8	294
41	Polymer Doping for Highâ€Efficiency Perovskite Solar Cells with Improved Moisture Stability. Advanced Energy Materials, 2018, 8, 1701757.	10.2	293
42	Mechanically Robust All-Polymer Solar Cells from Narrow Band Gap Acceptors with Hetero-Bridging Atoms. Joule, 2020, 4, 658-672.	11.7	279
43	Efficient ternary blend polymer solar cells with indene-C60 bisadduct as an electron-cascade acceptor. Energy and Environmental Science, 2014, 7, 2005.	15.6	275
44	A near-infrared non-fullerene electron acceptor for high performance polymer solar cells. Energy and Environmental Science, 2017, 10, 1610-1620.	15.6	272
45	A Layer-by-Layer Architecture for Printable Organic Solar Cells Overcoming the Scaling Lag of Module Efficiency. Joule, 2020, 4, 407-419.	11.7	272
46	Solution-processable metal oxides/chelates as electrode buffer layers for efficient and stable polymer solar cells. Energy and Environmental Science, 2015, 8, 1059-1091.	15.6	265
47	Fineâ€Tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54%. Advanced Materials, 2018, 30, 1706124.	11.1	253
48	Organic Solar Cell Materials toward Commercialization. Small, 2018, 14, e1801793.	5.2	253
49	Highâ€Efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. Advanced Materials, 2016, 28, 8288-8295.	11.1	247
50	A Semitransparent Inorganic Perovskite Film for Overcoming Ultraviolet Light Instability of Organic Solar Cells and Achieving 14.03% Efficiency. Advanced Materials, 2018, 30, e1800855.	11.1	243
51	High-performance conjugated polymer donor materials for polymer solar cells with narrow-bandgap nonfullerene acceptors. Energy and Environmental Science, 2019, 12, 3225-3246.	15.6	236
52	Tailored Phase Conversion under Conjugated Polymer Enables Thermally Stable Perovskite Solar Cells with Efficiency Exceeding 21%. Journal of the American Chemical Society, 2018, 140, 17255-17262.	6.6	235
53	A unified description of non-radiative voltage losses in organic solar cells. Nature Energy, 2021, 6, 799-806.	19.8	235
54	Interface Engineering of Perovskite Hybrid Solar Cells with Solution-Processed Peryleneâ€“Diimide Heterojunctions toward High Performance. Chemistry of Materials, 2015, 27, 227-234.	3.2	233

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55	Highâ€Performance Asâ€Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. Advanced Materials, 2018, 30, 1704546.	11.1	233
56	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. Nature Communications, 2019, 10, 519.	5.8	231
57	A guest-assisted molecular-organization approach for >17% efficiency organic solar cells using environmentally friendly solvents. Nature Energy, 2021, 6, 1045-1053.	19.8	230
58	Energy-Down-Shift CsPbCl₃:Mn Quantum Dots for Boosting the Efficiency and Stability of Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 1479-1486.	8.8	221
59	Realizing Ultrahigh Mechanical Flexibility and >15% Efficiency of Flexible Organic Solar Cells via a â€œWeldingâ€• Flexible Transparent Electrode. Advanced Materials, 2020, 32, e1908478.	11.1	216
60	Reconfiguration of interfacial energy band structure for high-performance inverted structure perovskite solar cells. Nature Communications, 2019, 10, 4593.	5.8	214
61	Preparation of gold, platinum, palladium and silver nanoparticles by the reduction of their salts with a weak reductantâ€“potassium bitartrate. Journal of Materials Chemistry, 2003, 13, 1069-1075.	6.7	210
62	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for Highâ€Efficiency Polymer Solar Cells. Advanced Materials, 2017, 29, 1703344.	11.1	209
63	A Solutionâ€Processable Small Molecule Based on Benzodithiophene and Diketopyrrolopyrrole for Highâ€Performance Organic Solar Cells. Advanced Energy Materials, 2013, 3, 1166-1170.	10.2	203
64	Synthesis and Photovoltaic Properties of Dâ€“A Copolymers Based on Alkyl-Substituted Indacenodithiophene Donor Unit. Chemistry of Materials, 2011, 23, 4264-4270.	3.2	193
65	A universal layer-by-layer solution-processing approach for efficient non-fullerene organic solar cells. Energy and Environmental Science, 2019, 12, 384-395.	15.6	193
66	Overcoming the Interface Losses in Planar Heterojunction Perovskiteâ€Based Solar Cells. Advanced Materials, 2016, 28, 5112-5120.	11.1	188
67	Highâ€Performance Organic Solar Cells Based on a Small Molecule with Alkylthioâ€Thienylâ€Conjugated Side Chains without Extra Treatments. Advanced Materials, 2015, 27, 7469-7475.	11.1	186
68	All-Small-Molecule Nonfullerene Organic Solar Cells with High Fill Factor and High Efficiency over 10%. Chemistry of Materials, 2017, 29, 7543-7553.	3.2	184
69	Interfacial Dipole in Organic and Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 18281-18292.	6.6	182
70	Simultaneously Achieved High Openâ€Circuit Voltage and Efficient Charge Generation by Fineâ€Tuning Chargeâ€Transfer Driving Force in Nonfullerene Polymer Solar Cells. Advanced Functional Materials, 2018, 28, 1704507.	7.8	180
71	Low-Bandgap Non-fullerene Acceptors Enabling High-Performance Organic Solar Cells. ACS Energy Letters, 2021, 6, 598-608.	8.8	175
72	Non-fullerene polymer solar cells based on a selenophene-containing fused-ring acceptor with photovoltaic performance of 8.6%. Energy and Environmental Science, 2016, 9, 3429-3435.	15.6	170

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73	Polymerized small molecular acceptor based all-polymer solar cells with an efficiency of 16.16% via tuning polymer blend morphology by molecular design. Nature Communications, 2021, 12, 5264.	5.8	170
74	Highly Flexible and Efficient Allâ€Polymer Solar Cells with Highâ€Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. Angewandte Chemie - International Edition, 2018, 57, 13277-13282.	7.2	166
75	Copolymers of perylene diimide with dithienothiophene and dithienopyrrole as electron-transport materials for all-polymer solar cells and field-effect transistors. Journal of Materials Chemistry, 2009, 19, 5794.	6.7	165
76	High performance polymer solar cells with as-prepared zirconium acetylacetonate film as cathode buffer layer. Scientific Reports, 2014, 4, 4691.	1.6	165
77	High-performance polymer solar cells based on a 2D-conjugated polymer with an alkylthio side-chain. Energy and Environmental Science, 2016, 9, 885-891.	15.6	165
78	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. Advanced Functional Materials, 2020, 30, 2000456.	7.8	164
79	Achieving Fast Charge Separation and Low Nonradiative Recombination Loss by Rational Fluorination for Highâ€Efficiency Polymer Solar Cells. Advanced Materials, 2019, 31, e1905480.	11.1	162
80	Highly Efficient Allâ€Smallâ€Molecule Organic Solar Cells with Appropriate Active Layer Morphology by Side Chain Engineering of Donor Molecules and Thermal Annealing. Advanced Materials, 2020, 32, e1908373.	11.1	162
81	A Solutionâ€Processable Electron Acceptor Based on Dibenzosilole and Diketopyrrolopyrrole for Organic Solar Cells. Advanced Energy Materials, 2013, 3, 724-728.	10.2	161
82	Thieno[3,2-<i>b</i>]pyrrolo-Fused Pentacyclic Benzotriazole-Based Acceptor for Efficient Organic Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 31985-31992.	4.0	161
83	Improving the efficiency of solution processable organic photovoltaic devices by a star-shaped molecular geometry. Journal of Materials Chemistry, 2008, 18, 4085.	6.7	160
84	PBDTTTZ: A Broad Band Gap Conjugated Polymer with High Photovoltaic Performance in Polymer Solar Cells. Macromolecules, 2011, 44, 4035-4037.	2.2	159
85	Highâ€Performance Colorful Semitransparent Polymer Solar Cells with Ultrathin Hybridâ€Metal Electrodes and Fineâ€Tuned Dielectric Mirrors. Advanced Functional Materials, 2017, 27, 1605908.	7.8	157
86	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	4.2	157
87	A review: crystal growth for high-performance all-inorganic perovskite solar cells. Energy and Environmental Science, 2020, 13, 1971-1996.	15.6	156
88	A Quinoxalineâ€Based Dâ€“A Copolymer Donor Achieving 17.62% Efficiency of Organic Solar Cells. Advanced Materials, 2021, 33, e2100474.	11.1	155
89	Highâ€Efficiency Allâ€Smallâ€Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilylâ€Thienyl Conjugated Side Chains. Advanced Materials, 2018, 30, e1706361.	11.1	154
90	Fullerene Derivatives for the Applications as Acceptor and Cathode Buffer Layer Materials for Organic and Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1601251.	10.2	152

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91	Highly Efficient Semitransparent Organic Solar Cells with Color Rendering Index Approaching 100. Advanced Materials, 2019, 31, e1807159.	11.1	152
92	A Strategy to Simplify the Preparation Process of Perovskite Solar Cells by Coâ€deposition of a Holeâ€Conductor and a Perovskite Layer. Advanced Materials, 2016, 28, 9648-9654.	11.1	150
93	Fullereneâ€Bisadduct Acceptors for Polymer Solar Cells. Chemistry - an Asian Journal, 2013, 8, 2316-2328.	1.7	148
94	A Universal Interface Layer Based on an Amineâ€Functionalized Fullerene Derivative with Dual Functionality for Efficient Solution Processed Organic and Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1401692.	10.2	144
95	11.2% Efficiency all-polymer solar cells with high open-circuit voltage. Science China Chemistry, 2019, 62, 845-850.	4.2	140
96	Unraveling Sunlight by Transparent Organic Semiconductors toward Photovoltaic and Photosynthesis. ACS Nano, 2019, 13, 1071-1077.	7.3	134
97	Controlled synthesis of CdS nanorods and hexagonal nanocrystals. Journal of Materials Chemistry, 2003, 13, 2641.	6.7	131
98	Polymer Light-Emitting Electrochemical Cells for High-Efficiency Low-Voltage Electroluminescent Devices. Journal of Display Technology, 2007, 3, 211-224.	1.3	131
99	Exploring High-Performance n-Type Thermoelectric Composites Using Amino-Substituted Rylene Dimides and Carbon Nanotubes. ACS Nano, 2017, 11, 5746-5752.	7.3	129
100	Solution-processable n-doped graphene-containing cathode interfacial materials for high-performance organic solar cells. Energy and Environmental Science, 2019, 12, 3400-3411.	15.6	129
101	Efficient and stable polymer solar cells with solution-processed molybdenum oxide interfacial layer. Journal of Materials Chemistry A, 2013, 1, 657-664.	5.2	126
102	A Twisted Dimeric Perylene Diimide Electron Acceptor for Efficient Organic Solar Cells. Advanced Energy Materials, 2014, 4, 1400420.	10.2	126
103	Targeted Therapy for Interfacial Engineering Toward Stable and Efficient Perovskite Solar Cells. Advanced Materials, 2019, 31, e1903691.	11.1	125
104	New Strategy for Twoâ€Step Sequential Deposition: Incorporation of Hydrophilic Fullerene in Second Precursor for Highâ€Performance pâ€iâ€n Planar Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1703054.	10.2	124
105	Efficient all-polymer solar cells based on blend of tris(thienylenevinylene)-substituted polythiophene and poly[perylene diimide-<i>alt</i>-bis(dithienothiophene)]. Applied Physics Letters, 2008, 93, .	1.5	123
106	High performance tandem organic solar cells via a strongly infrared-absorbing narrow bandgap acceptor. Nature Communications, 2021, 12, 178.	5.8	122
107	A Solution Processable Dâ€Aâ€D Molecule based on Thiazolothiazole for High Performance Organic Solar Cells. Advanced Energy Materials, 2012, 2, 63-67.	10.2	121
108	Energy Level and Molecular Structure Engineering of Conjugated Donorâ^'Acceptor Copolymers for Photovoltaic Applications. Macromolecules, 2009, 42, 4491-4499.	2.2	118

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109	Sideâ€Chain Impact on Molecular Orientation of Organic Semiconductor Acceptors: High Performance Nonfullerene Polymer Solar Cells with Thick Active Layer over 400 nm. Advanced Energy Materials, 2018, 8, 1800856.	10.2	118
110	Realizing 17.5% Efficiency Flexible Organic Solar Cells via Atomic-Level Chemical Welding of Silver Nanowire Electrodes. Journal of the American Chemical Society, 2022, 144, 8658-8668.	6.6	116
111	Evaluation of Electron Donor Materials for Solutionâ€Processed Organic Solar Cells via a Novel Figure of Merit. Advanced Energy Materials, 2017, 7, 1700465.	10.2	114
112	Dyeâ€Incorporated Polynaphthalenediimide Acceptor for Additiveâ€Free Highâ€Performance Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2018, 57, 4580-4584.	7.2	114
113	Flexible silver grid/PEDOT:PSS hybrid electrodes for large area inverted polymer solar cells. Nano Energy, 2014, 10, 259-267.	8.2	111
114	Integrating Ultrathin Bulkâ€Heterojunction Organic Semiconductor Intermediary for Highâ€Performance Lowâ€Bandgap Perovskite Solar Cells with Low Energy Loss. Advanced Functional Materials, 2018, 28, 1804427.	7.8	111
115	Synthesis and Characterization of a Copolymer Based on Thiazolothiazole and Dithienosilole for Polymer Solar Cells. Advanced Energy Materials, 2011, 1, 557-560.	10.2	110
116	Advancements in all-solid-state hybrid solar cells based on organometal halide perovskites. Materials Horizons, 2015, 2, 378-405.	6.4	110
117	New generation perovskite solar cells with solution-processed amino-substituted perylene diimide derivative as electron-transport layer. Journal of Materials Chemistry A, 2016, 4, 8724-8733.	5.2	109
118	Binaphthylâ€Containing Greenâ€• and Redâ€Emitting Molecules for Solutionâ€Processable Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2008, 18, 3299-3306.	7.8	108
119	Highly Flexible and Efficient Allâ€Polymer Solar Cells with Highâ€Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. Angewandte Chemie, 2018, 130, 13461-13466.	1.6	108
120	Highâ€Performance Nonâ€Fullerene Polymer Solar Cells Based on Fluorine Substituted Wide Bandgap Copolymers Without Extra Treatments. Solar Rrl, 2017, 1, 1700020.	3.1	107
121	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. Journal of Materials Chemistry A, 2019, 7, 25088-25101.	5.2	107
122	Highly Efficient and Thermally Stable Polymer Solar Cells with Dihydronaphthylâ€Based [70]Fullerene Bisadduct Derivative as the Acceptor. Advanced Functional Materials, 2012, 22, 2187-2193.	7.8	104
123	Effects of Fullerene Bisadduct Regioisomers on Photovoltaic Performance. Advanced Functional Materials, 2014, 24, 158-163.	7.8	104
124	Achieving over 10% efficiency in a new acceptor ITTC and its blends with hexafluoroquinoxaline based polymers. Journal of Materials Chemistry A, 2017, 5, 11286-11293.	5.2	102
125	Effect of Alkylsilyl Sideâ€Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. Advanced Energy Materials, 2018, 8, 1702324.	10.2	102
126	Low bandgap Ï€â€conjugated copolymers based on fused thiophenes and benzothiadiazole: Synthesis and structureâ€property relationship study. Journal of Polymer Science Part A, 2009, 47, 5498-5508.	2.5	100

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127	Modulating the Molecular Packing and Nanophase Blending via a Random Terpolymerization Strategy toward 11% Efficiency Nonfullerene Polymer Solar Cells. Advanced Energy Materials, 2017, 7, 1701125.	10.2	98
128	Combining Energy Transfer and Optimized Morphology for Highly Efficient Ternary Polymer Solar Cells. Advanced Energy Materials, 2017, 7, 1602552.	10.2	97
129	A Fused Ring Electron Acceptor with Decacyclic Core Enables over 13.5% Efficiency for Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1802050.	10.2	97
130	Benzodithiophenedione-based polymers: recent advances in organic photovoltaics. NPG Asia Materials, 2020, 12, .	3.8	96
131	Ultrafast Hole Transfer and Carrier Transport Controlled by Nanoscale-Phase Morphology in Nonfullerene Organic Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 3226-3233.	2.1	94
132	Synthesis and Photovoltaic Properties of a Series of Narrow Bandgap Organic Semiconductor Acceptors with Their Absorption Edge Reaching 900 nm. Chemistry of Materials, 2017, 29, 10130-10138.	3.2	93
133	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	10.2	93
134	Multifunctional Polymer Framework Modified SnO₂ Enabling a Photostable Î±-FAPbI₃ Perovskite Solar Cell with Efficiency Exceeding 23%. ACS Energy Letters, 2021, 6, 3824-3830.	8.8	93
135	Synthesis and Photovoltaic Properties of a Donorâˆ’Acceptor Double-Cable Polythiophene with High Content of C60Pendant. Macromolecules, 2007, 40, 1868-1873.	2.2	92
136	Copolymers from benzodithiophene and benzotriazole: synthesis and photovoltaic applications. Polymer Chemistry, 2010, 1, 1441.	1.9	92
137	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. Advanced Energy Materials, 2017, 7, 1602215.	10.2	92
138	A Synergetic Effect of Molecular Weight and Fluorine in Allâ€Polymer Solar Cells with Enhanced Performance. Advanced Functional Materials, 2017, 27, 1603564.	7.8	92
139	Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. Science China Chemistry, 2020, 63, 1159-1168.	4.2	92
140	Smallâ€Molecule Solar Cells with Fill Factors up to 0.75 via a Layerâ€byâ€Layer Solution Process. Advanced Energy Materials, 2014, 4, 1300626.	10.2	90
141	Efficient Polymer Solar Cells Based on Poly(3â€hexylthiophene):Indeneâ€C₇₀ Bisadduct with a MoO₃ Buffer Layer. Advanced Functional Materials, 2012, 22, 585-590.	7.8	88
142	A bipolar small molecule based on indacenodithiophene and diketopyrrolopyrrole for solution processed organic solar cells. Journal of Materials Chemistry A, 2014, 2, 778-784.	5.2	87
143	Efficient Polymer Solar Cells Based on Poly(3-hexylthiophene) and Indeneâ€“C₆₀ Bisadduct Fabricated with Non-halogenated Solvents. ACS Applied Materials & Interfaces, 2014, 6, 8190-8198.	4.0	86
144	Synergetic Transparent Electrode Architecture for Efficient Non-Fullerene Flexible Organic Solar Cells with >12% Efficiency. ACS Nano, 2019, 13, 4686-4694.	7.3	86

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145	Improvement of Photoluminescent and Photovoltaic Properties of Poly(thienylene vinylene) by Carboxylate Substitution. Macromolecules, 2009, 42, 4377-4380.	2.2	85
146	A New Polythiophene Derivative for High Efficiency Polymer Solar Cells with PCE over 9%. Advanced Energy Materials, 2016, 6, 1600430.	10.2	84
147	Enhanced power conversion efficiency in iridium complex-based terpolymers for polymer solar cells. Npj Flexible Electronics, 2018, 2, .	5.1	84
148	Interfacial engineering and optical coupling for multicolored semitransparent inverted organic photovoltaics with a record efficiency of over 12%. Journal of Materials Chemistry A, 2019, 7, 15887-15894.	5.2	83
149	Efficiency Enhancement of Polymer Solar Cells Based on Poly(3â€hexylthiophene)/Indeneâ€C₇₀ Bisadduct via Methylthiophene Additive. Advanced Energy Materials, 2011, 1, 1058-1061.	10.2	80
150	Diluting concentrated solution: a general, simple and effective approach to enhance efficiency of polymer solar cells. Energy and Environmental Science, 2015, 8, 2357-2364.	15.6	80
151	ITO-free photovoltaic cell utilizing a high-resolution silver grid current collecting layer. Solar Energy Materials and Solar Cells, 2013, 113, 85-89.	3.0	79
152	A simple strategy to the side chain functionalization on the quinoxaline unit for efficient polymer solar cells. Chemical Communications, 2016, 52, 6881-6884.	2.2	79
153	Elastic Lattice and Excess Charge Carrier Manipulation in 1Dâ€"3D Perovskite Solar Cells for Exceptionally Longâ€Term Operational Stability. Advanced Materials, 2021, 33, e2105170.	11.1	78
154	[6,6]â€Phenylâ€C₆₁â€Butyric Acid Dimethylamino Ester as a Cathode Buffer Layer for Highâ€Performance Polymer Solar Cells. Advanced Energy Materials, 2013, 3, 1569-1574.	10.2	77
155	Interface Design to Improve the Performance and Stability of Solutionâ€Processed Smallâ€Molecule Conventional Solar Cells. Advanced Energy Materials, 2014, 4, 1400816.	10.2	76
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