

# Zhi-guo Zhang

## List of Publications by Year in descending order

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234  
papers

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13068

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235  
docs citations

235  
times ranked

10553  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Electron Acceptor Challenging Fullerenes for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2015, 27, 1170-1174.	11.1	3,365
2	11.4% Efficiency non-fullerene polymer solar cells with trialkylsilyl substituted 2D-conjugated polymer as donor. <i>Nature Communications</i> , 2016, 7, 13651.	5.8	917
3	Side-Chain Isomerization on an n-type Organic Semiconductor ITIC Acceptor Makes 11.77% High Efficiency Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15011-15018.	6.6	826
4	Non-Fullerene Polymer Solar Cells Based on Alkylthio and Fluorine Substituted 2D-Conjugated Polymers Reach 9.5% Efficiency. <i>Journal of the American Chemical Society</i> , 2016, 138, 4657-4664.	6.6	743
5	Perylene diimides: a thickness-insensitive cathode interlayer for high performance polymer solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1966.	15.6	672
6	All-Polymer Solar Cells Based on Absorption-Complementary Polymer Donor and Acceptor with High Power Conversion Efficiency of 8.27%. <i>Advanced Materials</i> , 2016, 28, 1884-1890.	11.1	670
7	A low cost and high performance polymer donor material for polymer solar cells. <i>Nature Communications</i> , 2018, 9, 743.	5.8	635
8	High-performance fullerene-free polymer solar cells with 6.31% efficiency. <i>Energy and Environmental Science</i> , 2015, 8, 610-616.	15.6	587
9	Constructing a Strongly Absorbing Low-Bandgap Polymer Acceptor for High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13503-13507.	7.2	468
10	Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. <i>Nature Communications</i> , 2020, 11, 2726.	5.8	467
11	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604155.	11.1	360
12	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022, 65, 224-268.	4.2	349
13	Side-chain engineering of high-efficiency conjugated polymer photovoltaic materials. <i>Science China Chemistry</i> , 2015, 58, 192-209.	4.2	334
14	Polymerized Small-Molecule Acceptors for High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4422-4433.	7.2	318
15	High-Performance Inverted Polymer Solar Cells with Solution-Processed Titanium Chelate as Electron-Collecting Layer on ITO Electrode. <i>Advanced Materials</i> , 2012, 24, 1476-1481.	11.1	305
16	Structures and properties of conjugated Donor-Acceptor copolymers for solar cell applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 4178.	6.7	303
17	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.	6.6	303
18	Polymer Doping for High-Efficiency Perovskite Solar Cells with Improved Moisture Stability. <i>Advanced Energy Materials</i> , 2018, 8, 1701757.	10.2	293

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19	Conjugated Side-Chain-Isolated D <sup>π</sup> A Copolymers Based on Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene- <i>alt</i> -dithienylbenzotriazole: Synthesis and Photovoltaic Properties. <i>Chemistry of Materials</i> , 2012, 24, 3247-3254.	3.2	273
20	A near-infrared non-fullerene electron acceptor for high performance polymer solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 1610-1620.	15.6	272
21	Fine-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%. <i>Advanced Materials</i> , 2018, 30, 1706124.	11.1	253
22	High-efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. <i>Advanced Materials</i> , 2016, 28, 8288-8295.	11.1	247
23	Interface Engineering of Perovskite Hybrid Solar Cells with Solution-Processed Perylene-diimide Heterojunctions toward High Performance. <i>Chemistry of Materials</i> , 2015, 27, 227-234.	3.2	233
24	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. <i>Nature Communications</i> , 2019, 10, 519.	5.8	231
25	Charge Separation from an Intra-Moiety Intermediate State in the High-Performance PM6:Y6 Organic Photovoltaic Blend. <i>Journal of the American Chemical Society</i> , 2020, 142, 12751-12759.	6.6	228
26	Non-fullerene acceptor with low energy loss and high external quantum efficiency: towards high performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5890-5897.	5.2	219
27	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for High-efficiency Polymer Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1703344.	11.1	209
28	Overcoming the Interface Losses in Planar Heterojunction Perovskite-Based Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5112-5120.	11.1	188
29	All-Small-Molecule Nonfullerene Organic Solar Cells with High Fill Factor and High Efficiency over 10%. <i>Chemistry of Materials</i> , 2017, 29, 7543-7553.	3.2	184
30	Simultaneously Achieved High Open-Circuit Voltage and Efficient Charge Generation by Fine-tuning Charge-transfer Driving Force in Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1704507.	7.8	180
31	Non-fullerene polymer solar cells based on a selenophene-containing fused-ring acceptor with photovoltaic performance of 8.6%. <i>Energy and Environmental Science</i> , 2016, 9, 3429-3435.	15.6	170
32	Highly Flexible and Efficient All-Polymer Solar Cells with High-Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13277-13282.	7.2	166
33	Highly Efficient All-Small-Molecule Organic Solar Cells with Appropriate Active Layer Morphology by Side Chain Engineering of Donor Molecules and Thermal Annealing. <i>Advanced Materials</i> , 2020, 32, e1908373.	11.1	162
34	Thieno[3,2- <i>b</i> ]pyrrolo-Fused Pentacyclic Benzotriazole-Based Acceptor for Efficient Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31985-31992.	4.0	161
35	Solution-Processable Star-Shaped Molecules with Triphenylamine Core and Dicyanovinyl Endgroups for Organic Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 817-822.	3.2	158
36	Recent progress in organic solar cells (Part II device engineering). <i>Science China Chemistry</i> , 2022, 65, 1457-1497.	4.2	157

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37	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.	11.1	154
38	A Universal Interface Layer Based on an Amine-Functionalized Fullerene Derivative with Dual Functionality for Efficient Solution Processed Organic and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401692.	10.2	144
39	11.2% Efficiency all-polymer solar cells with high open-circuit voltage. <i>Science China Chemistry</i> , 2019, 62, 845-850.	4.2	140
40	Exploring High-Performance n-Type Thermoelectric Composites Using Amino-Substituted Rylene Dimides and Carbon Nanotubes. <i>ACS Nano</i> , 2017, 11, 5746-5752.	7.3	129
41	A fused-ring based electron acceptor for efficient non-fullerene polymer solar cells with small HOMO offset. <i>Nano Energy</i> , 2016, 27, 430-438.	8.2	125
42	Side-Chain Impact on Molecular Orientation of Organic Semiconductor Acceptors: High Performance Nonfullerene Polymer Solar Cells with Thick Active Layer over 400 nm. <i>Advanced Energy Materials</i> , 2018, 8, 1800856.	10.2	118
43	Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4580-4584.	7.2	114
44	New generation perovskite solar cells with solution-processed amino-substituted perylene diimide derivative as electron-transport layer. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8724-8733.	5.2	109
45	Highly Flexible and Efficient All-Polymer Solar Cells with High-Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. <i>Angewandte Chemie</i> , 2018, 130, 13461-13466.	1.6	108
46	A Non-Conjugated Polymer Acceptor for Efficient and Thermally Stable All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19835-19840.	7.2	105
47	Triphenylamine-Fluorene Alternating Conjugated Copolymers with Pendant Acceptor Groups: Synthesis, Structure-Property Relationship, and Photovoltaic Application. <i>Macromolecules</i> , 2009, 42, 3104-3111.	2.2	103
48	Synthesis and Photovoltaic Properties of Bithiazole-Based Donor-Acceptor Copolymers. <i>Macromolecules</i> , 2010, 43, 5706-5712.	2.2	103
49	Achieving over 10% efficiency in a new acceptor ITTC and its blends with hexafluoroquinoxaline based polymers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11286-11293.	5.2	102
50	Effect of Alkylsilyl Side-Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1702324.	10.2	102
51	Alternating Copolymers of Carbazole and Triphenylamine with Conjugated Side Chain Attaching Acceptor Groups: Synthesis and Photovoltaic Application. <i>Macromolecules</i> , 2010, 43, 9376-9383.	2.2	98
52	Modulating the Molecular Packing and Nanophase Blending via a Random Terpolymerization Strategy toward 11% Efficiency Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1701125.	10.2	98
53	Alkyl chain engineering on a dithieno[3,2-b:2',3'-d]silole-alt-dithienylthiazolo[5,4-d]thiazole copolymer toward high performance bulk heterojunction solar cells. <i>Chemical Communications</i> , 2011, 47, 9474.	2.2	94
54	Tetrafluoroquinoxaline based polymers for non-fullerene polymer solar cells with efficiency over 9%. <i>Nano Energy</i> , 2016, 30, 312-320.	8.2	94

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55	Synthesis and Photovoltaic Properties of Dâ€™A Copolymers Based on Dithienosilole and Benzotriazole. <i>Macromolecules</i> , 2011, 44, 7632-7638.	2.2	93
56	Synthesis and Photovoltaic Properties of a Series of Narrow Bandgap Organic Semiconductor Acceptors with Their Absorption Edge Reaching 900 nm. <i>Chemistry of Materials</i> , 2017, 29, 10130-10138.	3.2	93
57	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. <i>Advanced Energy Materials</i> , 2017, 7, 1602215.	10.2	92
58	A Synergetic Effect of Molecular Weight and Fluorine in Allâ€™Polymer Solar Cells with Enhanced Performance. <i>Advanced Functional Materials</i> , 2017, 27, 1603564.	7.8	92
59	Thiophene-Fused Benzothiadiazole: A Strong Electron-Acceptor Unit to Build Dâ€™A Copolymer for Highly Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 3495-3501.	3.2	87
60	90% yield production of polymer nano-memristor for in-memory computing. <i>Nature Communications</i> , 2021, 12, 1984.	5.8	87
61	Enhanced power conversion efficiency in iridium complex-based terpolymers for polymer solar cells. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	84
62	A simple strategy to the side chain functionalization on the quinoxaline unit for efficient polymer solar cells. <i>Chemical Communications</i> , 2016, 52, 6881-6884.	2.2	79
63	Interface Design to Improve the Performance and Stability of Solutionâ€™Processed Smallâ€™Molecule Conventional Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400816.	10.2	76
64	High Performance Nanostructured Siliconâ€™Organic Quasi p-n Junction Solar Cells via Low-Temperature Deposited Hole and Electron Selective Layer. <i>ACS Nano</i> , 2016, 10, 704-712.	7.3	74
65	Benzotriazole Based 2D-conjugated Polymer Donors for High Performance Polymer Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1-13.	2.0	74
66	Fully Solutionâ€™Processed Small Molecule Semitransparent Solar Cells: Optimization of Transparent Cathode Architecture and Four Absorbing Layers. <i>Advanced Functional Materials</i> , 2016, 26, 4543-4550.	7.8	73
67	Medium Bandgap Polymer Donor Based on Bi(trialkylsilylthienylâ€™benzo[1,2â€™:4,5â€™]â€™difuran) for High Performance Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700746.	10.2	72
68	Ultrafast Channel II process induced by a 3-D texture with enhanced acceptor order ranges for high-performance non-fullerene polymer solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 2569-2580.	15.6	72
69	Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. <i>Nano-Micro Letters</i> , 2021, 13, 44.	14.4	71
70	A simple, cheap soft synthesis routine for LiFePO4 using iron(III) raw material. <i>Journal of Power Sources</i> , 2007, 167, 200-205.	4.0	70
71	A star-shaped oligothiophene end-capped with alkyl cyanoacetate groups for solution-processed organic solar cells. <i>Chemical Communications</i> , 2012, 48, 9655.	2.2	70
72	Amine group functionalized fullerene derivatives as cathode buffer layers for high performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9624.	5.2	69

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73	An Indacenodithiophene-Quinoxaline Polymer Prepared by Direct Arylation Polymerization for Organic Photovoltaics. <i>Macromolecules</i> , 2016, 49, 527-536.	2.2	67
74	Thieno[3,2-b]thiophene-Bridged D <sup>π</sup> A Polymer Semiconductor Based on Benzo[1,2-b:4,5-b']dithiophene and Benzoxadiazole. <i>Macromolecules</i> , 2013, 46, 4805-4812.	2.2	66
75	Indacenodithienothiophene-naphthalene diimide copolymer as an acceptor for all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5810-5816.	5.2	66
76	16.52% Efficiency All-Polymer Solar Cells with High Tolerance of the Photoactive Layer Thickness. <i>Advanced Materials</i> , 2022, 34, e2108749.	11.1	63
77	Downwards tuning the HOMO level of polythiophene by carboxylate substitution for high open-circuit-voltage polymer solar cells. <i>Polymer Chemistry</i> , 2011, 2, 2900.	1.9	61
78	Insertion of double bond bridges of A <sup>π</sup> D <sup>π</sup> A acceptors for high performance near-infrared polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22588-22597.	5.2	61
79	Optimizing the conjugated side chains of quinoxaline based polymers for nonfullerene solar cells with 10.5% efficiency. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3074-3083.	5.2	61
80	Feasible D1A <sup>π</sup> D2A <sup>π</sup> A Random Copolymers for Simultaneous High-Performance Fullerene and Nonfullerene Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702166.	10.2	61
81	Nonradiative Triplet Loss Suppressed in Organic Photovoltaic Blends with Fluorinated Nonfullerene Acceptors. <i>Journal of the American Chemical Society</i> , 2021, 143, 4359-4366.	6.6	60
82	A Simple Electron Acceptor with Unfused Backbone for Polymer Solar Cells. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2019, 35, 394-400.	2.2	59
83	Uncovering the role of cathode buffer layer in organic solar cells. <i>Scientific Reports</i> , 2015, 5, 7803.	1.6	58
84	Room-temperature water-vapor annealing for high-performance planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17267-17273.	5.2	58
85	Synthesis and Photovoltaic Properties of a Copolymer of Benzo[1,2-b:4,5-b']dithiophene and Bithiazole. <i>Macromolecules</i> , 2010, 43, 8714-8717.	2.2	56
86	Tunable open-circuit voltage in ternary organic solar cells. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	56
87	Ultrafast hole transfer mediated by polaron pairs in all-polymer photovoltaic blends. <i>Nature Communications</i> , 2019, 10, 398.	5.8	56
88	Effects of fluorination on the properties of thieno[3,2-b]thiophene-bridged donor-acceptor polymer semiconductors. <i>Polymer Chemistry</i> , 2014, 5, 502-511.	1.9	55
89	All-small molecule solar cells based on donor molecule optimization with highly enhanced efficiency and stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15675-15683.	5.2	55
90	Triphenylamine-containing linear D-A-D molecules with benzothiadiazole as acceptor unit for bulk-heterojunction organic solar cells. <i>Organic Electronics</i> , 2011, 12, 614-622.	1.4	53

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91	Conjugated Side-Chain Isolated Polythiophene: Synthesis and Photovoltaic Application. <i>Macromolecules</i> , 2012, 45, 113-118.	2.2	53
92	Incorporation of High-Mobility and Room-Temperature-Deposited Cu <sub>x</sub> S as a Hole Transport Layer for Efficient and Stable Organo-Lead Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2017, 1, 1700038.	3.1	51
93	Constructing a Strongly Absorbing Low-Bandgap Polymer Acceptor for High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie</i> , 2017, 129, 13688-13692.	1.6	51
94	Side Chain Engineering of Polythiophene Derivatives with a Thienylene-Vinylene Conjugated Side Chain for Application in Polymer Solar Cells. <i>Macromolecules</i> , 2012, 45, 2312-2320.	2.2	50
95	A Simple Approach to Prepare Chlorinated Polymer Donors with Low-Lying HOMO Level for High Performance Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 6558-6567.	3.2	50
96	Development of Spiro[cyclopenta[1,2-b:5,4-b']dithiophene-4,9-fluorene]-Based A-D-A Small Molecules with Different Acceptor Units for Efficient Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4614-4625.	4.0	49
97	A soft chemistry synthesis routine for LiFePO <sub>4</sub> using a novel carbon source. <i>Journal of Alloys and Compounds</i> , 2008, 456, 461-465.	2.8	48
98	Hexafluoroquinoxaline Based Polymer for Nonfullerene Solar Cells Reaching 9.4% Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18816-18825.	4.0	47
99	Effect of Side-Chain Engineering of Bithienylbenzodithiophene-fluorobenzotriazole-Based Copolymers on the Thermal Stability and Photovoltaic Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2018, 51, 6028-6036.	2.2	47
100	Isomeric Effects of Solution Processed Ladder-Type Non-Fullerene Electron Acceptors. <i>Solar Rrl</i> , 2017, 1, 1700107.	3.1	44
101	Random terpolymer with a cost-effective monomer and comparable efficiency to PTB7-Th for bulk-heterojunction polymer solar cells. <i>Polymer Chemistry</i> , 2016, 7, 926-932.	1.9	43
102	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19053-19057.	7.2	43
103	Perylene-diimide derived organic photovoltaic materials. <i>Science China Chemistry</i> , 2022, 65, 462-485.	4.2	43
104	Self-assembly of pH-responsive and fluorescent comb-like amphiphilic copolymers in aqueous media. <i>Polymer</i> , 2010, 51, 3377-3386.	1.8	42
105	Insights into the working mechanism of cathode interlayers in polymer solar cells via [(C <sub>8</sub> H <sub>17</sub> ) <sub>4</sub> N] <sub>4</sub> [SiW <sub>12</sub> O <sub>40</sub> ]. <i>Journal of Materials Chemistry A</i> , 2016, 4, 19189-19196.	5.2	42
106	Side-Chain Effects on Energy-Level Modulation and Device Performance of Organic Semiconductor Acceptors in Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34146-34152.	4.0	42
107	Fermentation Performance and Structure Characteristics of Xanthan Produced by <i>Xanthomonas campestris</i> with a Glucose/Xylose Mixture. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 1653-1663.	1.4	41
108	One, two and three-branched triphenylamine-oligothiophene hybrids for solution-processed solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5128.	5.2	41

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109	The role of conjugated side chains in high performance photovoltaic polymers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2802-2814.	5.2	41
110	High performance as-cast semitransparent polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4670-4677.	5.2	41
111	The effect of non-structural components and lignin on hemicellulose extraction. <i>Bioresource Technology</i> , 2016, 214, 755-760.	4.8	40
112	A New Electron Acceptor with <i>meta</i> -Alkoxyphenyl Side Chain for Fullerene-Free Polymer Solar Cells with 9.3% Efficiency. <i>Advanced Science</i> , 2017, 4, 1700152.	5.6	40
113	Metal oxide-free flexible organic solar cells with 0.1 M perchloric acid sprayed polymeric anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21007-21015.	5.2	40
114	Poly(ethylene glycol) modified [60]fullerene as electron buffer layer for high-performance polymer solar cells. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	39
115	Perylene-diimide-based cathode interlayer materials for high performance organic solar cells. <i>SusMat</i> , 2022, 2, 243-263.	7.8	38
116	Low-cost synthesis of small molecule acceptors makes polymer solar cells commercially viable. <i>Nature Communications</i> , 2022, 13, .	5.8	38
117	Synthesis and photovoltaic properties of copolymers of carbazole and thiophene with conjugated side chain containing acceptor end groups. <i>Polymer Chemistry</i> , 2011, 2, 1678.	1.9	37
118	A simple and dopant-free hole-transporting material based on (2-ethylhexyl)-9 <i>H</i> -carbazole for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12752-12757.	2.7	37
119	A universal nonfullerene electron acceptor matching with different band-gap polymer donors for high-performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6874-6881.	5.2	37
120	Cellular Internalization and in Vivo Tracking of Thermosensitive Luminescent Micelles Based on Luminescent Lanthanide Chelate. <i>ACS Nano</i> , 2008, 2, 125-133.	7.3	36
121	Effect of Fluorine Substitution on Photovoltaic Properties of Alkoxyphenyl Substituted Benzo[1,2-b:4,5-b']dithiophene-Based Small Molecules. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25237-25246.	4.0	36
122	Improvement of Photovoltaic Performance of Polymer Solar Cells by Rational Molecular Optimization of Organic Molecule Acceptors. <i>Advanced Energy Materials</i> , 2018, 8, 1800815.	10.2	36
123	Nearly monochromatic red electroluminescence from a nonconjugated polymer containing carbazole segments and phenanthroline [Eu( <i>trifluoromethyl</i> diketonate) <sub>3</sub> ] moieties. <i>Journal of Polymer Science Part A</i> , 2009, 47, 210-221.	2.5	35
124	Synthesis and photovoltaic properties of a copolymer of dithienosilole and fluorinated-benzotriazole. <i>Polymer Chemistry</i> , 2013, 4, 1467-1473.	1.9	35
125	Dithienocoronene diimide based conjugated polymers as electron acceptors for all-polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 112, 13-19.	3.0	35
126	Crystalline Medium-Bandgap Light-Harvesting Donor Material Based on <i>1,8</i> -Naphthalene Asymmetric-Modified Benzodithiophene Moiety toward Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 8249-8257.	3.2	35



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127	Achieving efficient thick active layer and large area ternary polymer solar cells by incorporating a new fused heptacyclic non-fullerene acceptor. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20313-20326.	5.2	34
128	Copolymers of fluorene and thiophene with conjugated side chain for polymer solar cells: Effect of pendant acceptors. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1462-1470.	2.5	33
129	Nonhalogenated Solvent-Processed All-Polymer Solar Cells over 7.4% Efficiency from Quinoxaline-Based Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 41318-41325.	4.0	30
130	All annealing-free solution-processed highly flexible organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5425-5433.	5.2	30
131	Ring-perfluorinated non-volatile additives with a high dielectric constant lead to highly efficient and stable organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4716-4724.	2.7	29
132	Silicon and oxygen synergistic effects for the discovery of new high-performance nonfullerene acceptors. <i>Nature Communications</i> , 2020, 11, 5814.	5.8	29
133	D-A copolymers based on dithienosilole and phthalimide for photovoltaic materials. <i>Polymer</i> , 2011, 52, 5464-5470.	1.8	27
134	End-Capping Effect of Quinoxalino[2,3-b]porphyrin on Donor-Acceptor Copolymer and Improved Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2016, 49, 3723-3732.	2.2	27
135	Effect of furan $\pi$ -bridge on the photovoltaic performance of D-A copolymers based on bi(alkylthio-thienyl)benzodithiophene and fluorobenzotriazole. <i>Science China Chemistry</i> , 2017, 60, 537-544.	4.2	27
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