

Zhi-guo Zhang

List of Publications by Year in descending order

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all docs

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docs citations

235
times ranked

12203
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in small-molecule donors for non-fullerene all-polymer organic solar cells. Nano Select, 2022, 3, 233-247.	1.9	17
2	Influence of altering chlorine substitution positions on the photovoltaic properties of small molecule donors in all-small-molecule organic solar cells. Journal of Materials Chemistry C, 2022, 10, 2017-2025.	2.7	12
3	é~æ€\$èf1/2ç®€â•ç»“æž„èš(â™)â©-â-1â-”â•%o)ç±»ç»™â1/2“â...%oâ1/4ææ-™. Scientia Sinica Chimica, 2022, , .	0.2	0
4	16.52% Efficiency All-Polymer Solar Cells with High Tolerance of the Photoactive Layer Thickness. Advanced Materials, 2022, 34, e2108749.	11.1	63
5	Perylene-diimide-based cathode interlayer materials for high performance organic solar cells. SusMat, 2022, 2, 243-263.	7.8	38
6	Controllable Disulfide Exchange Polymerization of Polyguanidine for Effective Biomedical Applications by Thiol-Mediated Uptake. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
7	Controllable Disulfide Exchange Polymerization of Polyguanidine for Effective Biomedical Applications by Thiol-Mediated Uptake. Angewandte Chemie, 2022, 134, .	1.6	1
8	Perylene-diimide derived organic photovoltaic materials. Science China Chemistry, 2022, 65, 462-485.	4.2	43
9	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	4.2	349
10	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	4.2	157
11	Low-cost synthesis of small molecule acceptors makes polymer solar cells commercially viable. Nature Communications, 2022, 13, .	5.8	38
12	Benzotriazole Based 2D-conjugated Polymer Donors for High Performance Polymer Solar Cells. Chinese Journal of Polymer Science (English Edition), 2021, 39, 1-13.	2.0	74
13	Polymerized Small-Molecule Acceptors for High-Performance All-Polymer Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 4422-4433.	7.2	318
14	Polymerized Small-Molecule Acceptors for High-Performance All-Polymer Solar Cells. Angewandte Chemie, 2021, 133, 4470-4481.	1.6	22
15	All annealing-free solution-processed highly flexible organic solar cells. Journal of Materials Chemistry A, 2021, 9, 5425-5433.	5.2	30
16	Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. Nano-Micro Letters, 2021, 13, 44.	14.4	71
17	Nonradiative Triplet Loss Suppressed in Organic Photovoltaic Blends with Fluoridated Nonfullerene Acceptors. Journal of the American Chemical Society, 2021, 143, 4359-4366.	6.6	60
18	90% yield production of polymer nano-memristor for in-memory computing. Nature Communications, 2021, 12, 1984.	5.8	87

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19	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
20	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 19201-19205.	1.6	2
21	Ternary All-Polymer Solar Cells with Two Synergetic Donors Enable Efficiency over 14.5%. <i>Energy & Fuels</i> , 2021, 35, 19045-19054.	2.5	15
22	Effects of the Center Units of Small-Molecule Donors on the Morphology, Photovoltaic Performance, and Device Stability of All-Small-Molecule Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100515.	3.1	10
23	A low-cost polymerized hole-transporting material for high performance planar perovskite solar cells. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	1
24	Research Advances on Benzotriazole-based Organic Photovoltaic Materials. <i>Acta Chimica Sinica</i> , 2021, 79, 820.	0.5	10
25	Modulating Crystal Packing, Film Morphology, and Photovoltaic Performance of Selenophene-Containing Acceptors through a Combination of Skeleton Isomeric and Regioisomeric Strategies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50163-50175.	4.0	13
26	Effects of Alkyl Side Chains of Small Molecule Donors on Morphology and the Photovoltaic Property of All-Small-Molecule Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54237-54245.	4.0	13
27	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
28	A Non-Conjugated Polymer Acceptor for Efficient and Thermally Stable All-Polymer Solar Cells. <i>Angewandte Chemie</i> , 2020, 132, 20007-20012.	1.6	16
29	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
30	Silicon and oxygen synergistic effects for the discovery of new high-performance nonfullerene acceptors. <i>Nature Communications</i> , 2020, 11, 5814.	5.8	29
31	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
32	Optimizing the Phase-Separated Domain Size of the Active Layer via Sequential Crystallization in All-Polymer Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2314-2321.	2.1	19
33	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
34	Understanding the Morphology of High-Performance Solar Cells Based on a Low-Cost Polymer Donor. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9537-9544.	4.0	17
35	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
36	Multi-length scale morphology of nonfullerene all-small molecule blends and its relation to device function in organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 137-144.	3.2	12

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37	A decacyclic indacenodithiophene-based non-fullerene electron acceptor with meta-alkyl-phenyl substitutions for polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4063-4071.	5.2	17
38	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
39	Ultrafast hole transfer mediated by polaron pairs in all-polymer photovoltaic blends. <i>Nature Communications</i> , 2019, 10, 398.	5.8	56
40	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
41	11.2% Efficiency all-polymer solar cells with high open-circuit voltage. <i>Science China Chemistry</i> , 2019, 62, 845-850.	4.2	140
42	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
43	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
44	A low cost and high performance polymer donor material for polymer solar cells. <i>Nature Communications</i> , 2018, 9, 743.	5.8	635
45	Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie</i> , 2018, 130, 4670-4674.	1.6	10
46	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
47	STFTYT: A simple and broadly absorbing small molecule for efficient organic solar cells with a very low energy loss. <i>Organic Electronics</i> , 2018, 57, 45-52.	1.4	6
48	High-efficiency organic solar cells based on a small-molecule donor and a low-bandgap polymer acceptor with strong absorption. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9613-9622.	5.2	25
49	A solution-processed pillar[5]arene-based small molecule cathode buffer layer for efficient planar perovskite solar cells. <i>Nanoscale</i> , 2018, 10, 8088-8098.	2.8	20
50	Preparation of sub-square-meter-sized organic semiconductor films for photovoltaics applications. <i>Nano Energy</i> , 2018, 46, 11-19.	8.2	5
51	High performance as-cast semitransparent polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4670-4677.	5.2	41
52	Enhanced power conversion efficiency in iridium complex-based terpolymers for polymer solar cells. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	84
53	Side-chain fluorination on the pyrido[3,4-b]pyrazine unit towards efficient photovoltaic polymers. <i>Science China Chemistry</i> , 2018, 61, 206-214.	4.2	13
54	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

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55	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
56	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
57	Synthesis and photovoltaic properties of 2D-conjugated polymers with alkylsilyl-substituted thieno[3,2-b]thiophene conjugated side chains. <i>Organic Electronics</i> , 2018, 57, 255-262.	1.4	11
58	Cyclometalated Pt complex based random terpolymers as electron acceptors for all polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2018, 56, 105-115.	2.5	14
59	Polymer Doping for High Efficiency Perovskite Solar Cells with Improved Moisture Stability. <i>Advanced Energy Materials</i> , 2018, 8, 1701757.	10.2	293
60	Effect of Alkylsilyl Side Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1702324.	10.2	102
61	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
62	Feasible D1-A-D2-A Random Copolymers for Simultaneous High-Performance Fullerene and Nonfullerene Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702166.	10.2	61
63	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
64	Copper(I)-catalyzed benzylic C(sp ³)-H geminal difunctionalization: Successive oxidative intramolecular amidation and hydroxylation. <i>Tetrahedron</i> , 2018, 74, 7472-7479.	1.0	7
65	Nonhalogenated Solvent-Processed All-Polymer Solar Cells over 7.4% Efficiency from Quinoxaline-Based Polymers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41318-41325.	4.0	30
66	Effects of Alkoxy and Fluorine Atom Substitution of Donor Molecules on the Morphology and Photovoltaic Performance of All Small Molecule Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2018, 6, 413.	1.8	19
67	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
68	High-Efficiency All Polymer Solar Cell with a Low Voltage Loss of 0.56 V. <i>ACS Applied Energy Materials</i> , 2018, 1, 2350-2357.	2.5	9
69	Short-axis substitution approach on ladder-type benzodithiophene-based electron acceptor toward highly efficient organic solar cells. <i>Science China Chemistry</i> , 2018, 61, 1405-1412.	4.2	16
70	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
71	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
72	De novo design of small molecule acceptors via fullerene/non-fullerene hybrids for polymer solar cells. <i>Chemical Communications</i> , 2018, 54, 9801-9804.	2.2	13

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73	Effects of fused-ring regiochemistry on the properties and photovoltaic performance of n-type organic semiconductor acceptors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15933-15941.	5.2	25
74	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
75	Ternary polymer solar cells based-on two polymer donors with similar HOMO levels and an organic acceptor with absorption extending to 850 nm. <i>Organic Electronics</i> , 2018, 62, 89-94.	1.4	10
76	Asymmetric thieno[2,3-b]thiophene-based electron acceptor featuring a seven fused-ring electron donor unit as core for nonfullerene organic photovoltaics. <i>Organic Electronics</i> , 2018, 62, 82-88.	1.4	19
77	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
78	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
79	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
80	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
81	Two new medium bandgap asymmetric copolymers based on thieno[2,3-f]benzofuran for efficient organic solar cells. <i>Dyes and Pigments</i> , 2017, 140, 337-345.	2.0	12
82	Development of Spiro[cyclopenta[1,2-b:5,4-b']dithiophene-4,9-difluorene]-Based A-D-A Small Molecules with Different Acceptor Units for Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4614-4625.	4.0	49
83	Design of a thiophene-fused benzotriazole unit as an electron acceptor to build D-A copolymers for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2951-2957.	2.7	21
84	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
85	Controlling thermal emission of phonon by magnetic metasurfaces. <i>Scientific Reports</i> , 2017, 7, 41858.	1.6	23
86	Synthesis and characterization of arylenevinylenearylene-naphthalene diimide copolymers as acceptor in all-polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1757-1764.	2.5	19
87	Effect of furan 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
88	Asymmetric medium bandgap copolymers and narrow bandgap small-molecule acceptor with over 7% efficiency. <i>Organic Electronics</i> , 2017, 45, 42-48.	1.4	13
89	An asymmetrical thieno[2,3-f]benzofuran (TBF)-based conjugated polymer for organic solar cells with high fill factor. <i>Polymer</i> , 2017, 114, 348-354.	1.8	15
90	Orthogonal solubility in fully conjugated donor-acceptor block copolymers: Compatibilizers for polymer/fullerene bulk-heterojunction solar cells. <i>Chinese Journal of Polymer Science (English)</i> 10.1007/s12014-017-0507-1	10.4	57

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91	Naphthodifuran-based zigzag-type polycyclic arene with conjugated side chains for efficient photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14289-14295.	1.3	7
92	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
93	Incorporation of High-Mobility and Room-Temperature-Deposited Cu _x 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
94	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
95	Hexafluoroquinoxaline Based Polymer for Nonfullerene Solar Cells Reaching 9.4% Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18816-18825.	4.0	47
96	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
97	A new polymer acceptor containing naphthalene diimide and 1,3,4-thiadiazole for all-polymer solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 990-996.	2.4	15
98	Effects of alkoxy substitution on molecular structure, physicochemical and photovoltaic properties of 2D-conjugated polymers based on benzo[1,2-b:4,5-b']dithiophene and fluorinated benzothiadiazole. <i>Chemical Physics Letters</i> , 2017, 672, 63-69.	1.2	7
99	A new fluoropyrido[3,4-b]pyrazine based polymer for efficient photovoltaics. <i>Polymer Chemistry</i> , 2017, 8, 2227-2234.	1.9	4
100	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
101	Low-temperature aqueous solution processed ZnO as an electron transporting layer for efficient perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017, 1, 802-806.	3.2	25
102	A simple and dopant-free hole-transporting material based on (2-ethylhexyl)-9H-carbazole for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12752-12757.	2.7	37
103	Insertion of double bond ĩ-bridges of A-D-A acceptors for high performance near-infrared polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22588-22597.	5.2	61
104	Thieno[3,2-b]pyrrolo-Fused Pentacyclic Benzotriazole-Based Acceptor for Efficient Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31985-31992.	4.0	161
105	Cellular Architecture-Based All-Polymer Flexible Thin-Film Photodetectors with High Performance and Stability in Harsh Environment. <i>Advanced Materials Technologies</i> , 2017, 2, 1700185.	3.0	7
106	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
107	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
108	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

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109	Isomeric Effects of Solution Processed Ladder-Type Non-Fullerene Electron Acceptors. <i>Solar Rrl</i> , 2017, 1, 1700107.	3.1	44
110	Side-Chain Effects on Energy-Level Modulation and Device Performance of Organic Semiconductor Acceptors in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34146-34152.	4.0	42
111	Crystalline Medium-Bandgap Light-Harvesting Donor Material Based on <i>1,2-Naphthalene Asymmetric-Modified Benzodithiophene Moiety</i> toward Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 8249-8257.	3.2	35
112	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
113	Medium Bandgap Polymer Donor Based on Bi(trialkylsilylthienyl)benzo[1,2-b:4,5-b']difuran) for High Performance Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700746.	10.2	72
114	A New Electron Acceptor with <i>meta-Alkoxyphenyl Side Chain</i> for Fullerene-Free Polymer Solar Cells with 9.3% Efficiency. <i>Advanced Science</i> , 2017, 4, 1700152.	5.6	40
115	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
116	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
117	Contribution to the reduction-induced fluorescence enhancement of natural organic matter: Aromatic ketones outweigh quinones. <i>Luminescence</i> , 2017, 32, 1528-1534.	1.5	3
118	Cyclometalated Pt complex-based random terpolymers for efficient polymer solar cells. <i>Polymer Chemistry</i> , 2017, 8, 4729-4737.	1.9	21
119	3D Structural Model of High-Performance Non-Fullerene Polymer Solar Cells as Revealed by High-Resolution AFM. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24451-24455.	4.0	1
120	New <i>m</i> -alkoxy- <i>p</i> -fluorophenyl difluoroquinoxaline based polymers in efficient fullerene solar cells with high fill factor. <i>Organic Electronics</i> , 2017, 50, 7-15.	1.4	18
121	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604155.	11.1	360
122	A Synergetic Effect of Molecular Weight and Fluorine in All-Polymer Solar Cells with Enhanced Performance. <i>Advanced Functional Materials</i> , 2017, 27, 1603564.	7.8	92
123	Efficient Inverted Organic Solar Cells Based on a Fullerene Derivative-Modified Transparent Cathode. <i>Materials</i> , 2017, 10, 1064.	1.3	11
124	Overcoming the Interface Losses in Planar Heterojunction Perovskite-Based Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5112-5120.	11.1	188
125	<i>Naphthalenediimide-Fused Thiophene D-A Copolymers</i> for the Application as Acceptor in All-Polymer Solar Cells. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2785-2791.	1.7	18
126	Fully Solution-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

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127	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
128	An asymmetric small molecule based on thieno[2,3-f]benzofuran for efficient organic solar cells. <i>Organic Electronics</i> , 2016, 35, 87-94.	1.4	20
129	The effect of non-structural components and lignin on hemicellulose extraction. <i>Bioresource Technology</i> , 2016, 214, 755-760.	4.8	40
130	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
131	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
132	Solution-Processable Cathode Buffer Layer for High-Performance ITO/CuSCN-based Planar Heterojunction Perovskite Solar Cell. <i>Electrochimica Acta</i> , 2016, 218, 263-270.	2.6	23
133	Tetrafluoroquinoxaline based polymers for non-fullerene polymer solar cells with efficiency over 9%. <i>Nano Energy</i> , 2016, 30, 312-320.	8.2	94
134	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
135	Alkoxy substituted benzodithiophene-alt-fluorobenzotriazole copolymer as donor in non-fullerene polymer solar cells. <i>Science China Chemistry</i> , 2016, 59, 1317-1322.	4.2	26
136	Polymers from phenyl-substituted benzodithiophene and tetrafluoroquinoxaline with high open circuit voltage and high fill factor. <i>Organic Electronics</i> , 2016, 37, 287-293.	1.4	17
137	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
138	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
139	Insights into the working mechanism of cathode interlayers in polymer solar cells via [(C ₈ H ₁₇) ₄ N] ₄ [SiW ₁₂ O ₄₀]. <i>Journal of Materials Chemistry A</i> , 2016, 4, 19189-19196.	5.2	42
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