

# Xiangjian Wan

## List of Publications by Year in descending order

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188  
papers

18,601  
citations

16437

64  
h-index

12258

133  
g-index

195  
all docs

195  
docs citations

195  
times ranked

13024  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic and solution-processed tandem solar cells with 17.3% efficiency. <i>Science</i> , 2018, 361, 1094-1098.	6.0	2,262
2	A Series of Simple Oligomer-like Small Molecules Based on Oligothiophenes for Solution-Processed Solar Cells with High Efficiency. <i>Journal of the American Chemical Society</i> , 2015, 137, 3886-3893.	6.6	788
3	Small-molecule solar cells with efficiency over 9%. <i>Nature Photonics</i> , 2015, 9, 35-41.	15.6	769
4	Solution-Processed and High-Performance Organic Solar Cells Using Small Molecules with a Benzodithiophene Unit. <i>Journal of the American Chemical Society</i> , 2013, 135, 8484-8487.	6.6	675
5	Solution-Processed Organic Solar Cells Based on Dialkylthiol-Substituted Benzodithiophene Unit with Efficiency near 10%. <i>Journal of the American Chemical Society</i> , 2014, 136, 15529-15532.	6.6	670
6	High Performance Photovoltaic Applications Using Solution-Processed Small Molecules. <i>Accounts of Chemical Research</i> , 2013, 46, 2645-2655.	7.6	624
7	Small Molecules Based on Benzo[1,2-b:4,5-b']dithiophene Unit for High-Performance Solution-Processed Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 16345-16351.	6.6	563
8	Solution-processed organic tandem solar cells with power conversion efficiencies >12%. <i>Nature Photonics</i> , 2017, 11, 85-90.	15.6	510
9	Small-Molecule Acceptor Based on the Heptacyclic Benzodi(cyclopentadithiophene) Unit for Highly Efficient Nonfullerene Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 4929-4934.	6.6	459
10	Graphene-based conducting inks for direct inkjet printing of flexible conductive patterns and their applications in electric circuits and chemical sensors. <i>Nano Research</i> , 2011, 4, 675-684.	5.8	397
11	Two-Dimensional Ruddlesden-Popper Perovskite with Nanorod-like Morphology for Solar Cells with Efficiency Exceeding 15%. <i>Journal of the American Chemical Society</i> , 2018, 140, 11639-11646.	6.6	397
12	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022, 65, 224-268.	4.2	349
13	Acceptor-donor-acceptor type molecules for high performance organic photovoltaics: chemistry and mechanism. <i>Chemical Society Reviews</i> , 2020, 49, 2828-2842.	18.7	326
14	A hybrid material of graphene and poly(3,4-ethyldioxythiophene) with high conductivity, flexibility, and transparency. <i>Nano Research</i> , 2009, 2, 343-348.	5.8	320
15	Focusing on Energy and Optoelectronic Applications: A Journey for Graphene and Graphene Oxide at Large Scale. <i>Accounts of Chemical Research</i> , 2012, 45, 598-607.	7.6	310
16	Solution Processable Rhodanine-Based Small Molecule Organic Photovoltaic Cells with a Power Conversion Efficiency of 6.1%. <i>Advanced Energy Materials</i> , 2012, 2, 74-77.	10.2	303
17	A New Nonfullerene Electron Acceptor with a Ladder Type Backbone for High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604964.	11.1	289
18	High-Performance Solar Cells using a Solution-Processed Small Molecule Containing Benzodithiophene Unit. <i>Advanced Materials</i> , 2011, 23, 5387-5391.	11.1	271

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19	Flexible organic photovoltaics based on water-processed silver nanowire electrodes. <i>Nature Electronics</i> , 2019, 2, 513-520.	13.1	255
20	Graphene – A Promising Material for Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2011, 23, 5342-5358.	11.1	242
21	Spin-Coated Small Molecules for High Performance Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 771-775.	10.2	233
22	Synthesis, characterization and optical limiting property of covalently oligothiophene-functionalized graphene material. <i>Carbon</i> , 2009, 47, 3113-3121.	5.4	218
23	Fine-Tuning the Energy Levels of a Nonfullerene Small-Molecule Acceptor to Achieve a High Short-Circuit Current and a Power Conversion Efficiency over 12% in Organic Solar Cells. <i>Advanced Materials</i> , 2018, 30, 1704904.	11.1	214
24	A Planar Small Molecule with Dithienosilole Core for High Efficiency Solution-Processed Organic Photovoltaic Cells. <i>Chemistry of Materials</i> , 2011, 23, 4666-4668.	3.2	210
25	A chlorinated low-bandgap small-molecule acceptor for organic solar cells with 14.1% efficiency and low energy loss. <i>Science China Chemistry</i> , 2018, 61, 1307-1313.	4.2	210
26	Highly Efficient and Stable Solar Cells Based on Crystalline Oriented 2D/3D Hybrid Perovskite. <i>Advanced Materials</i> , 2019, 31, e1901242.	11.1	210
27	A small molecules for solution-processed organic photovoltaic cells. <i>Chemical Communications</i> , 2015, 51, 4936-4950.	2.2	188
28	Nonfullerene Tandem Organic Solar Cells with High Performance of 14.11%. <i>Advanced Materials</i> , 2018, 30, e1707508.	11.1	184
29	A perylene diimide (PDI)-based small molecule with tetrahedral configuration as a non-fullerene acceptor for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4698-4705.	2.7	180
30	Subtle Balance Between Length Scale of Phase Separation and Domain Purification in Small-Molecule Bulk-Heterojunction Blends under Solvent Vapor Treatment. <i>Advanced Materials</i> , 2015, 27, 6296-6302.	11.1	159
31	A Halogenation Strategy for over 12% Efficiency Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702870.	10.2	159
32	Recent progress in organic solar cells (Part II device engineering). <i>Science China Chemistry</i> , 2022, 65, 1457-1497.	4.2	157
33	Controlled synthesis of few-layered graphene sheets on a large scale using chemical exfoliation. <i>Carbon</i> , 2010, 48, 2367-2371.	5.4	156
34	Low-Bandgap Porphyrins for Highly Efficient Organic Solar Cells: Materials, Morphology, and Applications. <i>Advanced Materials</i> , 2020, 32, e1906129.	11.1	143
35	An A-D-A Type Small-Molecule Electron Acceptor with End-Extended Conjugation for High Performance Organic Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 7908-7917.	3.2	139
36	Phase Distribution and Carrier Dynamics in Multiple-Ring Aromatic Spacer-Based Two-Dimensional Ruddlesden-Popper Perovskite Solar Cells. <i>ACS Nano</i> , 2020, 14, 4871-4881.	7.3	126

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37	Benzo[1,2-b:4,5-b <sup>€2</sup> ]dithiophene (BDT)-based small molecules for solution processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4765-4776.	5.2	117
38	Evaluation of Electron Donor Materials for Solution-Processed Organic Solar Cells via a Novel Figure of Merit. <i>Advanced Energy Materials</i> , 2017, 7, 1700465.	10.2	114
39	Graphene quantum dots as the hole transport layer material for high-performance organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18973.	1.3	113
40	A New Nonfullerene Acceptor with Near Infrared Absorption for High Performance Ternary Blend Organic Solar Cells with Efficiency over 13%. <i>Advanced Science</i> , 2018, 5, 1800307.	5.6	111
41	A simple small molecule as an acceptor for fullerene-free organic solar cells with efficiency near 8%. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10409-10413.	5.2	104
42	Efficient solution processed bulk-heterojunction solar cells based a donor-acceptor oligothiophene. <i>Journal of Materials Chemistry</i> , 2010, 20, 2464.	6.7	103
43	Polymer photovoltaic devices with transparent graphene electrodes produced by spin-casting. <i>Carbon</i> , 2010, 48, 3308-3311.	5.4	100
44	Spacer Engineering Using Aromatic Formamidinium in 2D/3D Hybrid Perovskites for Highly Efficient Solar Cells. <i>ACS Nano</i> , 2021, 15, 7811-7820.	7.3	99
45	Efficient small molecule bulk heterojunction solar cells with high fill factors via introduction of $\pi$ -stacking moieties as end group. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1801-1809.	5.2	96
46	New Anthracene-Fused Nonfullerene Acceptors for High-Efficiency Organic Solar Cells: Energy Level Modulations Enabling Match of Donor and Acceptor. <i>Advanced Energy Materials</i> , 2019, 9, 1803541.	10.2	95
47	Efficient and thermally stable organic solar cells based on small molecule donor and polymer acceptor. <i>Nature Communications</i> , 2019, 10, 3271.	5.8	94
48	Dithienosilole-Based Small-Molecule Organic Solar Cells with an Efficiency over 8%: Investigation of the Relationship between the Molecular Structure and Photovoltaic Performance. <i>Chemistry of Materials</i> , 2015, 27, 6077-6084.	3.2	92
49	Achieving an Efficient and Stable Morphology in Organic Solar Cells Via Fine-Tuning the Side Chains of Small-Molecule Acceptors. <i>Chemistry of Materials</i> , 2020, 32, 2593-2604.	3.2	91
50	Ternary Organic Solar Cells With 12.8% Efficiency Using Two Nonfullerene Acceptors With Complementary Absorptions. <i>Advanced Energy Materials</i> , 2018, 8, 1800424.	10.2	90
51	Ionic Dopant-Free Polymer Alloy Hole Transport Materials for High-Performance Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2022, 144, 9500-9509.	6.6	85
52	Photoconductivity of Bulk-Film-Based Graphene Sheets. <i>Small</i> , 2009, 5, 1682-1687.	5.2	80
53	Fullerene-free small molecule organic solar cells with a high open circuit voltage of 1.15 V. <i>Chemical Communications</i> , 2016, 52, 465-468.	2.2	79
54	Lowong the energy loss of organic solar cells by molecular packing engineering via multiple molecular conjugation extension. <i>Science China Chemistry</i> , 2022, 65, 1362-1373.	4.2	79

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55	High-Performance All-Small-Molecule Solar Cells Based on a New Type of Small Molecule Acceptors with Chlorinated End Groups. <i>Advanced Energy Materials</i> , 2018, 8, 1802021.	10.2	76
56	New small-molecule acceptors based on hexacyclic naphthalene(cyclopentadithiophene) for efficient non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17204-17210.	5.2	75
57	Achieving Both Enhanced Voltage and Current through Fine-Tuning Molecular Backbone and Morphology Control in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901024.	10.2	73
58	Synthesis and properties of acceptor-donor-acceptor molecules based on oligothiophenes with tunable and low band gap. <i>Tetrahedron</i> , 2009, 65, 5209-5215.	1.0	71
59	Small Molecules Based on Alkyl/Alkylthio-thieno[3,2- <i>b</i> ]thiophene-Substituted Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene for Solution-Processed Solar Cells with High Performance. <i>Chemistry of Materials</i> , 2015, 27, 8414-8423.	3.2	71
60	Effect of thermal annealing on active layer morphology and performance for small molecule bulk heterojunction organic solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7247-7255.	2.7	70
61	Impact of dye end groups on acceptor-donor-acceptor type molecules for solution-processed photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 9173.	6.7	69
62	High Performance Thick-Film Nonfullerene Organic Solar Cells with Efficiency over 10% and Active Layer Thickness of 600 nm. <i>Advanced Energy Materials</i> , 2019, 9, 1902688.	10.2	69
63	Selective Tuning of the HOMO-LUMO Gap of Carbazole-Based Donor-Acceptor-Donor Compounds toward Different Emission Colors. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1681-1687.	1.2	68
64	Small Molecule Acceptors with a Nonfused Architecture for High-Performance Organic Photovoltaics. <i>Chemistry of Materials</i> , 2019, 31, 904-911.	3.2	66
65	Investigation of Quinquethiophene Derivatives with Different End Groups for High Open Circuit Voltage Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 639-646.	10.2	65
66	Synthesis, characterization, and electroluminescent properties of star shaped donor-acceptor dendrimers with carbazole dendrons as peripheral branches and heterotriangulene as central core. <i>Tetrahedron</i> , 2009, 65, 4455-4463.	1.0	59
67	High efficiency and stability small molecule solar cells developed by bulk microstructure fine-tuning. <i>Nano Energy</i> , 2016, 28, 241-249.	8.2	57
68	Nonfullerene Small Molecular Acceptors with a Three-Dimensional (3D) Structure for Organic Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 6770-6778.	3.2	57
69	Triperylene Hexaimides Based All-Small-Molecule Solar Cells with an Efficiency over 6% and Open Circuit Voltage of 1.04 V. <i>Advanced Energy Materials</i> , 2017, 7, 1601664.	10.2	57
70	A high-performance photovoltaic small molecule developed by modifying the chemical structure and optimizing the morphology of the active layer. <i>RSC Advances</i> , 2014, 4, 31977-31980.	1.7	54
71	The rational and effective design of nonfullerene acceptors guided by a semi-empirical model for an organic solar cell with an efficiency over 15%. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9726-9732.	5.2	54
72	Solution-processable graphene mesh transparent electrodes for organic solar cells. <i>Nano Research</i> , 2013, 6, 478-484.	5.8	53

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73	Towards flexible all-carbon electronics: Flexible organic field-effect transistors and inverter circuits using solution-processed all-graphene source/drain/gate electrodes. <i>Nano Research</i> , 2010, 3, 714-721.	5.8	50
74	Efficient non-fullerene organic solar cells employing sequentially deposited donor-acceptor layers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18225-18233.	5.2	49
75	Efficient and Large Scale Synthesis of Graphene from Coal and Its Film Electrical Properties Studies. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 929-932.	0.9	48
76	A solution-processed high performance organic solar cell using a small molecule with the thieno[3,2-b]thiophene central unit. <i>Chemical Communications</i> , 2015, 51, 15268-15271.	2.2	48
77	A Tandem Organic Solar Cell with PCE of 14.52% Employing Subcells with the Same Polymer Donor and Two Absorption Complementary Acceptors. <i>Advanced Materials</i> , 2019, 31, e1804723.	11.1	48
78	Tuning Morphology of Active Layer by using a Wide Bandgap Oligomer-Like Donor Enables Organic Solar Cells with Over 18% Efficiency. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	45
79	Evaluation of Small Molecules as Front Cell Donor Materials for High-Efficiency Tandem Solar Cells. <i>Advanced Materials</i> , 2016, 28, 7008-7012.	11.1	43
80	Impact of the Electron-Transport Layer on the Performance of Solution-Processed Small-Molecule Organic Solar Cells. <i>ChemSusChem</i> , 2014, 7, 2358-2364.	3.6	40
81	A Novel Tetrathiafulvalene- (TTF-) Fused Poly(aryleneethynylene) with an Acceptor Main Chain and Donor Side Chains: Intramolecular Charge Transfer (CT), Stacking Structure, and Photovoltaic Property. <i>Macromolecules</i> , 2008, 41, 3114-3119.	2.2	38
82	The synthesis of 5-alkyl[3,4-c]thienopyrrole-4,6-dione-based polymers using a Pd-catalyzed oxidative C-H/C-H homopolymerization reaction. <i>Chemical Communications</i> , 2014, 50, 12497-12499.	2.2	38
83	Fine-tuning the side-chains of non-fullerene small molecule acceptors to match with appropriate polymer donors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8586-8594.	5.2	38
84	A solution-processed nanoscale COF-like material towards optoelectronic applications. <i>Science China Chemistry</i> , 2021, 64, 82-91.	4.2	38
85	Sequentially Deposited versus Conventional Nonfullerene Organic Solar Cells: Interfacial Trap States, Vertical Stratification, and Exciton Dissociation. <i>Advanced Energy Materials</i> , 2019, 9, 1902145.	10.2	36
86	Achieving over 18% Efficiency Organic Solar Cell Enabled by a ZnO-Based Hybrid Electron Transport Layer with an Operational Lifetime up to 5...Years. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	36
87	New Insights into the Correlation between Morphology, Excited State Dynamics, and Device Performance of Small Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600961.	10.2	34
88	Open-circuit voltage up to 1.07V for solution processed small molecule based organic solar cells. <i>Organic Electronics</i> , 2014, 15, 2285-2294.	1.4	32
89	Assessing the stability of high performance solution processed small molecule solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 368-376.	3.0	31
90	A Three-dimensional Non-fullerene Small Molecule Acceptor for Solution-Processed Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2017, 35, 1687-1692.	2.6	30

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91	Cesium Halides-Assisted Crystal Growth of Perovskite Films for Efficient Planar Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 5264-5271.	3.2	30
92	Synthesis, Characterization and Nonlinear Optical Property of Graphene-C <sub>60</sub> Hybrid. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5752-5756.	0.9	29
93	A simple small molecule as the acceptor for fullerene-free organic solar cells. <i>Science China Chemistry</i> , 2017, 60, 366-369.	4.2	29
94	Design and synthesis of low band gap non-fullerene acceptors for organic solar cells with impressively high J <sub>sc</sub> over 21 mA cm <sup>-2</sup> . <i>Science China Materials</i> , 2017, 60, 819-828.	3.5	29
95	All-Small-Molecule Organic Solar Cells Based on Pentathiophene Donor and Alkylated Indacenodithiophene-Based Acceptors with Efficiency over 8%. <i>ACS Applied Energy Materials</i> , 2018, 1, 2150-2156.	2.5	29
96	Flexible High-Performance and Solution-Processed Organic Photovoltaics with Robust Mechanical Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2010000.	7.8	29
97	Investigation of the enhanced performance and lifetime of organic solar cells using solution-processed carbon dots as the electron transport layers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12403-12409.	2.7	28
98	Small Molecules with Asymmetric 4-Alkyl-8-alkoxybenzo[1,2- <i>b</i> :4,5- <i>b'</i> ]-dithiophene as the Central Unit for High-Performance Solar Cells with High Fill Factors. <i>Chemistry of Materials</i> , 2017, 29, 3694-3703.	3.2	28
99	A nonfullerene acceptor incorporating a dithienopyran fused backbone for organic solar cells with efficiency over 14%. <i>Nano Energy</i> , 2020, 75, 104988.	8.2	27
100	Improved efficiency of solution processed small molecules organic solar cells using thermal annealing. <i>Organic Electronics</i> , 2013, 14, 1562-1569.	1.4	26
101	Investigation of the effect of large aromatic fusion in the small molecule backbone on the solar cell device fill factor. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16679-16687.	5.2	26
102	Manipulating active layer morphology of molecular donor/polymer acceptor based organic solar cells through ternary blends. <i>Science China Chemistry</i> , 2018, 61, 1025-1033.	4.2	25
103	Side chain engineering investigation of non-fullerene acceptors for photovoltaic device with efficiency over 15%. <i>Science China Chemistry</i> , 2020, 63, 1799-1806.	4.2	25
104	Novel donor-acceptor polymers based on 7-perfluorophenyl-6H-[1,2,5]thiadiazole[3,4- <i>g</i> ]benzoimidazole for bulk heterojunction solar cells. <i>RSC Advances</i> , 2015, 5, 50137-50145.	1.7	24
105	An Arene-mercury(II) N-Heterocyclic Carbene Complex. <i>Organometallics</i> , 2009, 28, 5590-5592.	1.1	23
106	A new oligobenzodithiophene end-capped with 3-ethyl-rhodanine groups for organic solar cells with high open-circuit voltage. <i>Science China Chemistry</i> , 2015, 58, 339-346.	4.2	23
107	Synergistic Modifications of Side Chains and End Groups in Small Molecular Acceptors for High Efficient Non-Fullerene Organic Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800053.	3.1	23
108	Different donor-acceptor structures of dithiafulvalene-fused semiconducting polymers with different band gaps. <i>Chemical Communications</i> , 2011, 47, 10401.	2.2	22

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109	Synthesis and photovoltaic properties of novel C60 bisadducts based on benzo[2,1,3]-thiadiazole. <i>Tetrahedron</i> , 2014, 70, 6217-6221.	1.0	22
110	Developing high-performance small molecule organic solar cells via a large planar structure and an electron-withdrawing central unit. <i>Chemical Communications</i> , 2017, 53, 451-454.	2.2	22
111	Achieving organic solar cells with efficiency over 14% based on a non-fullerene acceptor incorporating a cyclopentathiophene unit fused backbone. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5194-5199.	5.2	21
112	All- <i>Small-Molecule Organic Solar Cells with Efficiency Approaching 16% and FF over 80%</i> . <i>Small</i> , 2022, 18, e2201400.	5.2	21
113	Impact of end-capped groups on the properties of dithienosilole-based small molecules for solution-processed organic solar cells. <i>Dyes and Pigments</i> , 2017, 147, 183-189.	2.0	20
114	An all small molecule organic solar cell based on a porphyrin donor and a non-fullerene acceptor with complementary and broad absorption. <i>Dyes and Pigments</i> , 2020, 176, 108250.	2.0	20
115	Impact of fluorinated end groups on the properties of acceptor-donor-acceptor type oligothiophenes for solution-processed photovoltaic cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1337-1345.	2.7	19
116	Large active layer thickness toleration of high-efficiency small molecule solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22274-22279.	5.2	19
117	Can Isotope Effects Enable Organic Solar Cells to Achieve Smaller Non-Radiative Energy Losses and Why?. <i>Chemistry of Materials</i> , 2022, 34, 6009-6025.	3.2	19
118	Phenalenyl-based boron-fluorine complexes: Synthesis, crystal structures and solid-state fluorescence properties. <i>Journal of Molecular Structure</i> , 2010, 968, 85-88.	1.8	18
119	Diketopyrrolopyrrole based small molecules with near infrared absorption for solution processed organic solar cells. <i>Dyes and Pigments</i> , 2016, 126, 173-178.	2.0	18
120	Molecular Origin of Donor- and Acceptor-Rich Domain Formation in Bulk-Heterojunction Solar Cells with an Enhanced Charge Transport Efficiency. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5864-5870.	1.5	18
121	Substituents on the end group subtle tuning the energy levels and absorptions of small-molecule nonfullerene acceptors. <i>Dyes and Pigments</i> , 2018, 155, 241-248.	2.0	18
122	Concurrently Improved <i>J</i> , Fill Factor, and Stability in a Ternary Organic Solar Cell Enabled by a C-Shaped Non-fullerene Acceptor and Its Structurally Similar Third Component. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 40766-40777.	4.0	18
123	Tandem organic solar cells with 18.67% efficiency <i>via</i> careful subcell design and selection. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11238-11245.	5.2	18
124	A cyclopentadithiophene-bridged small molecule acceptor with near-infrared light absorption for efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4013-4019.	2.7	17
125	A low bandgap carbazole based small molecule for organic solar cells. <i>Organic Electronics</i> , 2015, 24, 89-95.	1.4	16
126	A series of dithienobenzodithiophene based small molecules for highly efficient organic solar cells. <i>Science China Chemistry</i> , 2017, 60, 552-560.	4.2	16



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127	Subtle Morphology Control with Binary Additives for High-Efficiency Non-Fullerene Acceptor Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27425-27432.	4.0	16
128	Dithienopyrrole Based Small Molecule with Low Band Gap for Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2015, 33, 852-858.	2.6	15
129	An oxygen heterocycle-fused fluorene based non-fullerene acceptor for high efficiency organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3594-3601.	3.2	15
130	All-Small-Molecule Organic Solar Cells Based on a Fluorinated Small Molecule Donor With High Open-Circuit Voltage of 1.07 V. <i>Frontiers in Chemistry</i> , 2020, 8, 329.	1.8	15
131	Fluorination-modulated end units for high-performance non-fullerene acceptors based organic solar cells. <i>Science China Materials</i> , 2019, 62, 1210-1217.	3.5	14
132	Two-level self-assembly from nanowires to microrods based on a heterotriangulene derivative. <i>Chemical Physics Letters</i> , 2009, 479, 117-119.	1.2	13
133	A small molecule with selenophene as the central block for high performance solution-processed organic solar cells. <i>Organic Electronics</i> , 2015, 19, 98-104.	1.4	13
134	Improving current and mitigating energy loss in ternary organic photovoltaics enabled by two well-compatible small molecule acceptors. <i>Science China Chemistry</i> , 2021, 64, 608-615.	4.2	13
135	A Novel Poly(aryleneethynylene) with Tetrathiafulvalene (TTF) Side Chains: Synthesis, Self-Assembly, and Electroactive Property. <i>Macromolecular Rapid Communications</i> , 2008, 29, 719-723.	2.0	12
136	Synthesis and crystal structure of 5,12-diphenyl-6,11-bis(thien-2-yl)tetracene. <i>Journal of Molecular Structure</i> , 2008, 889, 265-270.	1.8	12
137	Enhancement of Performance and Mechanism Studies of All-Solution Processed Small-Molecule based Solar Cells with an Inverted Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21245-21253.	4.0	12
138	Alkylthio substituted thiophene modified benzodithiophene-based highly efficient photovoltaic small molecules. <i>Organic Electronics</i> , 2016, 28, 263-268.	1.4	12
139	Two Thieno[3,2- <i>b</i> ]thiophene-Based Small Molecules as Bifunctional Photoactive Materials for Organic Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1700179.	3.1	12
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