

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4094980/jinaqi-zhang-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

219 papers	13,648 citations	53 h-index	113 g-index
240 ext. papers	16,992 ext. citations	11.9 avg, IF	6.87 L-index

#	Paper	IF	Citations
219	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , 2016 , 1,	62.3	1444
218	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. <i>Nature Communications</i> , 2019 , 10, 2515	17.4	1093
217	Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1908205	24	896
216	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, 1884-90	24	604
215	Over 14% Efficiency in Organic Solar Cells Enabled by Chlorinated Nonfullerene Small-Molecule Acceptors. <i>Advanced Materials</i> , 2018 , 30, e1800613	24	538
214	Fluorination-enabled optimal morphology leads to over 11% efficiency for inverted small-molecule organic solar cells. <i>Nature Communications</i> , 2016 , 7, 13740	17.4	486
213	Conjugated Polymer-Small Molecule Alloy Leads to High Efficient Ternary Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8176-83	16.4	484
212	A low cost and high performance polymer donor material for polymer solar cells. <i>Nature Communications</i> , 2018 , 9, 743	17.4	459
211	Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. <i>Advanced Materials</i> , 2019 , 31, e1808356	24	314
210	Single-Junction Organic Photovoltaic Cell with 19% Efficiency. <i>Advanced Materials</i> , 2021 , 33, e2102420	24	302
209	New Wide Band Gap Donor for Efficient Fullerene-Free All-Small-Molecule Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1958-1966	16.4	225
208	An Electron Acceptor with Porphyrin and Perylene Bisimides for Efficient Non-Fullerene Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2694-2698	16.4	202
207	All-small-molecule organic solar cells with over 14% efficiency by optimizing hierarchical morphologies. <i>Nature Communications</i> , 2019 , 10, 5393	17.4	185
206	Synergistic effect of polymer and small molecules for high-performance ternary organic solar cells. <i>Advanced Materials</i> , 2015 , 27, 1071-6	24	183
205	Adaptive and freeze-tolerant heteronetwork organohydrogels with enhanced mechanical stability over a wide temperature range. <i>Nature Communications</i> , 2017 , 8, 15911	17.4	175
204	Benzotriazole-Based Acceptor and Donors, Coupled with Chlorination, Achieve a High VOC of 1.24 V and an Efficiency of 10.5% in Fullerene-Free Organic Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 3941-3947	19.6	175
203	Boosting Hot Electrons in Hetero-superstructures for Plasmon-Enhanced Catalysis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17964-17972	16.4	158

202	Achievement of High Voc of 1.02 V for P3HT-Based Organic Solar Cell Using a Benzotriazole-Containing Non-Fullerene Acceptor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602269	21.8	157
201	Large-Area Organic Solar Cells: Material Requirements, Modular Designs, and Printing Methods. <i>Advanced Materials</i> , 2019 , 31, e1805089	24	152
200	Fluorination vs. chlorination: a case study on high performance organic photovoltaic materials. <i>Science China Chemistry</i> , 2018 , 61, 1328-1337	7.9	142
199	Over 11% Efficiency in Tandem Polymer Solar Cells Featured by a Low-Band-Gap Polymer with Fine-Tuned Properties. <i>Advanced Materials</i> , 2016 , 28, 5133-8	24	133
198	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. <i>Advanced Materials</i> , 2016 , 28, 943-50	24	128
197	Modulating Molecular Orientation Enables Efficient Nonfullerene Small-Molecule Organic Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 2129-2134	9.6	127
196	Toward Over 15% Power Conversion Efficiency for Organic Solar Cells: Current Status and Perspectives. <i>Small Methods</i> , 2017 , 1, 1700258	12.8	114
195	From Alloy-Like to Cascade Blended Structure: Designing High-Performance All-Small-Molecule Ternary Solar Cells. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1549-1556	16.4	113
194	Fine Multi-Phase Alignments in 2D Perovskite Solar Cells with Efficiency over 17% via Slow Post-Annealing. <i>Advanced Materials</i> , 2019 , 31, e1903889	24	106
193	The Introduction of Fluorine and Sulfur Atoms into Benzotriazole-Based p-Type Polymers to Match with a Benzotriazole-Containing n-Type Small Molecule: The Same-Acceptor-Strategy to Realize High Open-Circuit Voltage. <i>Advanced Energy Materials</i> , 2018 , 8, 1801582	21.8	104
192	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , 2020 , 63, 1142-1150	7.1	99
191	Enhancing Performance of Large-Area Organic Solar Cells with Thick Film via Ternary Strategy. <i>Small</i> , 2017 , 13, 1700388	11	93
190	"Double-Cable" Conjugated Polymers with Linear Backbone toward High Quantum Efficiencies in Single-Component Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18647-18656	16.4	86
189	Combining Energy Transfer and Optimized Morphology for Highly Efficient Ternary Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602552	21.8	85
188	A High-Performance D π A Copolymer Based on Dithieno[3,2-b:2',3'-d]Pyridin-5(4H)-One Unit Compatible with Fullerene and Nonfullerene Acceptors in Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602509	21.8	84
187	Bis-Diketopyrrolopyrrole Moiety as a Promising Building Block to Enable Balanced Ambipolar Polymers for Flexible Transistors. <i>Advanced Materials</i> , 2017 , 29, 1606162	24	82
186	A carbon-oxygen-bridged ladder-type building block for efficient donor and acceptor materials used in organic solar cells. <i>Science Bulletin</i> , 2017 , 62, 1331-1336	10.6	77
185	Acceptor End-Capped Oligomeric Conjugated Molecules with Broadened Absorption and Enhanced Extinction Coefficients for High-Efficiency Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 5980-5	24	77

184	Improve the Performance of the All-Small-Molecule Nonfullerene Organic Solar Cells through Enhancing the Crystallinity of Acceptors. <i>Advanced Energy Materials</i> , 2018 , 8, 1702377	21.8	75
183	Biphasic Synergistic Gel Materials with Switchable Mechanics and Self-Healing Capacity. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13464-13469	16.4	73
182	Oligomeric Donor Material for High-Efficiency Organic Solar Cells: Breaking Down a Polymer. <i>Advanced Materials</i> , 2015 , 27, 4229-33	24	71
181	Optimized Alloy-Parallel Morphology of Ternary Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1502456	21.8	70
180	PBDT-TSR: a highly efficient conjugated polymer for polymer solar cells with a regioregular structure. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1708-1713	13	68
179	A lactam building block for efficient polymer solar cells. <i>Chemical Communications</i> , 2015 , 51, 11830-3	5.8	66
178	Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains for Single-Component Organic Solar Cells. <i>Chemistry of Materials</i> , 2017 , 29, 7073-7077	9.6	63
177	Volatilizable Solid Additive-Assisted Treatment Enables Organic Solar Cells with Efficiency over 18.8% and Fill Factor Exceeding 80. <i>Advanced Materials</i> , 2021 , 33, e2105301	24	63
176	Molecular Engineering of D _A Copolymers Based on 4,8-Bis(4-chlorothiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene (BDT-T-Cl) for High-Performance Fullerene-Free Organic Solar Cells. <i>Macromolecules</i> , 2019 , 52, 6227-6233	5.5	61
175	Restructuring in block copolymer thin films: In situ GISAXS investigations during solvent vapor annealing. <i>Progress in Polymer Science</i> , 2017 , 66, 80-115	29.6	60
174	Dual-Programmable Shape-Morphing and Self-Healing Organohydrogels Through Orthogonal Supramolecular Heteronetworks. <i>Advanced Materials</i> , 2018 , 30, e1804435	24	60
173	Efficient Two-Dimensional Tin Halide Perovskite Light-Emitting Diodes via a Spacer Cation Substitution Strategy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1120-1127	6.4	58
172	A New Conjugated Polymer that Enables the Integration of Photovoltaic and Light-Emitting Functions in One Device. <i>Advanced Materials</i> , 2021 , 33, e2101090	24	58
171	Effects of energy-level offset between a donor and acceptor on the photovoltaic performance of non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18889-18897	13	57
170	Highly efficient flexible MAPbI ₃ solar cells with a fullerene derivative-modified SnO ₂ layer as the electron transport layer. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6659-6664	13	56
169	High-Yield Production of MoS and WS Quantum Sheets from Their Bulk Materials. <i>Nano Letters</i> , 2017 , 17, 7767-7772	11.5	56
168	Regulating Bulk-Heterojunction Molecular Orientations through Surface Free Energy Control of Hole-Transporting Layers for High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1806921	24	53
167	Tuning the dipole moments of nonfullerene acceptors with an asymmetric terminal strategy for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8889-8896	13	53

166	Lamellar Diblock Copolymer Thin Films during Solvent Vapor Annealing Studied by GISAXS: Different Behavior of Parallel and Perpendicular Lamellae. <i>Macromolecules</i> , 2014 , 47, 5711-5718	5.5	53
165	Liquid-Crystalline Small Molecules for Nonfullerene Solar Cells with High Fill Factors and Power Conversion Efficiencies. <i>Advanced Energy Materials</i> , 2019 , 9, 1803175	21.8	49
164	Completely non-fused electron acceptor with 3D-interpenetrated crystalline structure enables efficient and stable organic solar cell. <i>Nature Communications</i> , 2021 , 12, 5093	17.4	48
163	Facile-Effective Hole-Transporting Materials Based on Dibenzo[a,c]carbazole: The Key Role of Linkage Position to Photovoltaic Performance of Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2514-2521	20.1	45
162	Naphtho[1,2-b:5,6-b']dithiophene-Based Small Molecules for Thick-Film Organic Solar Cells with High Fill Factors. <i>Chemistry of Materials</i> , 2016 , 28, 943-950	9.6	44
161	All-small-molecule organic solar cells based on an electron donor incorporating binary electron-deficient units. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6056-6063	13	43
160	Ambipolar Conjugated Polymers with Ultrahigh Balanced Hole and Electron Mobility for Printed Organic Complementary Logic via a Two-Step C-H Activation Strategy. <i>Advanced Materials</i> , 2019 , 31, e1806010	24	43
159	Enhancing the Photovoltaic Performance via Vertical Phase Distribution Optimization in Small Molecule:PC71BM Blends. <i>Advanced Energy Materials</i> , 2017 , 7, 1701548	21.8	40
158	Naphtho[1,2-b:5,6-b']dithiophene Based Two-Dimensional Conjugated Polymers for Highly Efficient Thick-Film Inverted Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 6947-6954	9.6	40
157	Hydrophilicity gradient in covalent organic frameworks for membrane distillation. <i>Nature Materials</i> , 2021 , 20, 1551-1558	27	40
156	High efficiency small molecular acceptors based on novel O-functionalized ladder-type dipyran building block. <i>Nano Energy</i> , 2018 , 45, 10-20	17.1	39
155	17% efficiency all-small-molecule organic solar cells enabled by nanoscale phase separation with a hierarchical branched structure. <i>Energy and Environmental Science</i> ,	35.4	39
154	Asymmetric thiophene/pyridine flanked diketopyrrolopyrrole polymers for high performance polymer ambipolar field-effect transistors and solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 566-572	7.1	38
153	Non-Fullerene Acceptors With A2 = A1-D-A1 = A2 Skeleton Containing Benzothiadiazole and Thiazolidine-2,4-Dione for High-Performance P3HT-Based Organic Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700166	7.1	38
152	Exquisite modulation of ZnO nanoparticle electron transporting layer for high-performance fullerene-free organic solar cell with inverted structure. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3570-3576	13	38
151	Management of the crystallization in two-dimensional perovskite solar cells with enhanced efficiency within a wide temperature range and high stability. <i>Nano Energy</i> , 2019 , 58, 706-714	17.1	38
150	Synergistic Optimization Enables Large-Area Flexible Organic Solar Cells to Maintain over 98% PCE of the Small-Area Rigid Devices. <i>Advanced Materials</i> , 2020 , 32, e2005153	24	38
149	Understanding the Impact of Hierarchical Nanostructure in Ternary Organic Solar Cells. <i>Advanced Science</i> , 2015 , 2, 1500250	13.6	37

148	A conformational locking strategy in linked-acceptor type polymers for organic solar cells. <i>Polymer Chemistry</i> , 2016 , 7, 1323-1329	4.9	35
147	Poly(3-hexylthiophene)-based non-fullerene solar cells achieve high photovoltaic performance with small energy loss. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16573-16579	13	35
146	Molecular design revitalizes the low-cost PTV-polymer for highly efficient organic solar cells.. <i>National Science Review</i> , 2021 , 8, nwab031	10.8	35
145	Small Exciton Binding Energies Enabling Direct Charge Photogeneration Towards Low-Driving-Force Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15348-15353	16.4	32
144	A Sequential Slot-Die Coated Ternary System Enables Efficient Flexible Organic Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800333	7.1	32
143	Evolution of morphology and open-circuit voltage in alloy-energy transfer coexisting ternary organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9859-9866	13	30
142	Constructing High-Performance All-Small-Molecule Ternary Solar Cells with the Same Third Component but Different Mechanisms for Fullerene and Non-Fullerene Systems. <i>Advanced Energy Materials</i> , 2019 , 9, 1900190	21.8	30
141	Two-dimensional benzo[1,2-b:4,5-b']difuran-based wide bandgap conjugated polymers for efficient fullerene-free polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4023-4031	13	30
140	Moving Alkyl-Chain Branching Point Induced a Hierarchical Morphology for Efficient All-Small-Molecule Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2005426	15.6	30
139	Regulating the phase separation of ternary organic solar cells via 3D architected AIE molecules. <i>Nano Energy</i> , 2020 , 68, 104271	17.1	29
138	Water-Assisted Crystal Growth in Quasi-2D Perovskites with Enhanced Charge Transport and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2001832	21.8	29
137	Investigation of Conjugated Polymers Based on Naphtho[2,3-c]thiophene-4,9-dione in Fullerene-Based and Fullerene-Free Polymer Solar Cells. <i>Macromolecules</i> , 2017 , 50, 1453-1462	5.5	27
136	Multiple conformation locks gift polymer donor high efficiency. <i>Nano Energy</i> , 2020 , 77, 105161	17.1	27
135	Self-Assembled 3D Helical Hollow Superstructures with Enhanced Microwave Absorption Properties. <i>Macromolecular Rapid Communications</i> , 2018 , 39, 1700591	4.8	27
134	Fluorination-substitution effect on all-small-molecule organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 837-844	7.9	26
133	Versatile asymmetric thiophene/benzothiophene flanked diketopyrrolopyrrole polymers with ambipolar properties for OFETs and OSCs. <i>Polymer Chemistry</i> , 2017 , 8, 5603-5610	4.9	26
132	An Efficiency of 16.46% and a Lifetime of Over 4000 h for the PM6:Y6 Inverted Organic Solar Cells Enabled by Surface Acid Treatment of the Zinc Oxide Electron Transporting Layer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17869-17881	9.5	26
131	Orientationally engineered 2D/3D perovskite for high efficiency solar cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 324-330	5.8	25

130	Perfluoroalkyl-substituted conjugated polymers as electron acceptors for all-polymer solar cells: the effect of diiodoperfluoroalkane additives. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7736-7745	13	25
129	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. <i>Science China Chemistry</i> , 2019 , 62, 370-377	7.9	24
128	Modulation of Donor Alkyl Terminal Chains with the Shifting Branching Point Leads to the Optimized Morphology and Efficient All-Small-Molecule Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25100-25107	9.5	24
127	Surface modification of ZnO electron transport layers with glycine for efficient inverted non-fullerene polymer solar cells. <i>Organic Electronics</i> , 2019 , 70, 25-31	3.5	23
126	Surface growth of highly oriented covalent organic framework thin film with enhanced photoresponse speed. <i>RSC Advances</i> , 2015 , 5, 92573-92576	3.7	23
125	Structure and Dynamics of Asymmetric Poly(styrene- <i>b</i> -1,4-isoprene) Diblock Copolymer under 1D and 2D Nanoconfinement. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12328-38	9.5	23
124	Effect of Annealing on the Deformation Mechanism of a Styrene/ <i>n</i> -Butyl Acrylate Copolymer Latex Film Investigated by Synchrotron Small-Angle X-ray Scattering. <i>Macromolecules</i> , 2008 , 41, 4353-4357	5.5	22
123	The effect of aggregation behavior on photovoltaic performances in benzodithiophene-thiazolothiazole-based wide band-gap conjugated polymers with side chain position changes. <i>Polymer Chemistry</i> , 2020 , 11, 1629-1636	4.9	22
122	Influence of Covalent and Noncovalent Backbone Rigidification Strategies on the Aggregation Structures of a Wide-Band-Gap Polymer for Photovoltaic Cells. <i>Chemistry of Materials</i> , 2020 , 32, 1993-2003	8.6	21
121	Modulation of the Molecular Orientation at the Bulk Heterojunction Interface via Tuning the Small Molecular Donor-Nonfullerene Acceptor Interactions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31526-31534	9.5	21
120	Wide-Bandgap Conjugated Polymers Based on Alkylthiofuran-Substituted Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]difuran for Efficient Fullerene-Free Polymer Solar Cells. <i>Macromolecules</i> , 2018 , 51, 2498-2505	5.5	20
119	High Hole Mobility in Long-Range Ordered 2D Lead Sulfide Nanocrystal Monolayer Films. <i>Advanced Functional Materials</i> , 2016 , 26, 5182-5188	15.6	20
118	Structural evolution of perpendicular lamellae in diblock copolymer thin films during solvent vapor treatment investigated by grazing-incidence small-angle X-ray scattering. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1289-95	4.8	20
117	Effects of end-capped acceptors subject to subtle structural changes on solution-processable small molecules for organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8894-900	3.6	19
116	Small bandgap porphyrin-based polymer acceptors for non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 717-721	7.1	19
115	Methylated conjugated polymers based on diketopyrrolopyrrole and dithienothiophene for high performance field-effect transistors. <i>Organic Electronics</i> , 2016 , 37, 366-370	3.5	19
114	D-A1-D-A2 Copolymer Based on Pyridine-Capped Diketopyrrolopyrrole with Fluorinated Benzothiadiazole for High-Performance Ambipolar Organic Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8620-6	9.5	19
113	Influence of the replacement of alkoxyl with alkylthienyl on photovoltaic properties of two small molecule donors for organic solar cells. <i>Science China Chemistry</i> , 2017 , 60, 1340-1348	7.9	19

112	Long-term stable and highly efficient perovskite solar cells with a formamidinium chloride (FACl) additive. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17756-17764	13	19
111	Linked-Acceptor Type Conjugated Polymer for High Performance Organic Photovoltaics with an Open-Circuit Voltage Exceeding 1 V. <i>Advanced Science</i> , 2015 , 2, 1500021	13.6	18
110	Structural evolution of a colloidal crystal fiber during heating and annealing studied by in situ synchrotron small angle X-ray scattering. <i>Langmuir</i> , 2010 , 26, 13216-20	4	18
109	Multifunctional Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700611	4.8	18
108	Rigid Nonfullerene Acceptors Based on Triptycene-Perylene Dye for Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1286-1290	4.5	17
107	Twisted terrylene dyes: synthesis and application in organic solar cells. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 811-816	5.2	17
106	Tuning Charge Generation Process of Rylene Imide-Based Solar Cells via Chalcogen-Atom-Annulation. <i>Chemistry of Materials</i> , 2019 , 31, 3636-3643	9.6	17
105	Critical Role of Vertical Phase Separation in Small-Molecule Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12913-12920	9.5	17
104	A Universal Nonhalogenated Polymer Donor for High-Performance Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2021 , e2105803	24	17
103	Molecular dispersion enhances photovoltaic efficiency and thermal stability in quasi-bilayer organic solar cells. <i>Science China Chemistry</i> , 2021 , 64, 116-126	7.9	17
102	High open-circuit voltage ternary organic solar cells based on ICBA as acceptor and absorption-complementary donors. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1223-1228	7.8	16
101	Robust production of 2D quantum sheets from bulk layered materials. <i>Materials Horizons</i> , 2019 , 6, 1416-1424	14.4	16
100	High fill factor organic solar cells with increased dielectric constant and molecular packing density. <i>Joule</i> , 2022 ,	27.8	16
99	Simultaneous performance and stability improvement of polymer:fullerene solar cells by doping with piperazine. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7099-7108	13	16
98	Macroscopic helical chirality and self-motion of hierarchical self-assemblies induced by enantiomeric small molecules. <i>Nature Communications</i> , 2018 , 9, 3808	17.4	16
97	The collapse and aggregation of thermoresponsive poly(2-oxazoline) gradient copolymers: a time-resolved SANS study. <i>Colloid and Polymer Science</i> , 2014 , 292, 2413-2425	2.4	15
96	High Miscibility Compatible with Ordered Molecular Packing Enables an Excellent Efficiency of 16.2% in All-small-molecule Organic Solar Cells. <i>Advanced Materials</i> , 2021 , e2106316	24	15
95	Red-emissive poly(phenylene vinylene)-derivated semiconductors with well-balanced ambipolar electrical transporting properties. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10868-10879	7.1	14

94	On the understanding of energy loss and device fill factor trade-offs in non-fullerene organic solar cells with varied energy levels. <i>Nano Energy</i> , 2020 , 75, 105032	17.1	14
93	Ternary Organic Solar Cells Based on Two Non-fullerene Acceptors with Complimentary Absorption and Balanced Crystallinity. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 935-940	4.9	14
92	Efficient Charge Transport Enables High Efficiency in Dilute Donor Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5039-5044	6.4	14
91	Fusion or non-fusion of quasi-two-dimensional fused perylene diimide acceptors: the importance of molecular geometry for fullerene-free organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27493 ¹³ 2750 ¹⁴		
90	Significant influence of halogenation on the energy levels and molecular configurations of polymers in DTBDT-based polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1244-1252	7.8	13
89	Non-Preheating Processed Quasi-2D Perovskites for Efficient and Stable Solar Cells. <i>Small</i> , 2020 , 16, e1906997	11	13
88	Aromatic end-capped acceptor effects on molecular stacking and the photovoltaic performance of solution-processable small molecules. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22077-22085	13	13
87	Control of Nanomorphology in Fullerene-Free Organic Solar Cells by Lewis Acid Doping with Enhanced Photovoltaic Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 667-677	9.5	13
86	High-Efficiency Organic Solar Cells Based on Asymmetric Acceptors Bearing One 3D Shape-Persistent Terminal Group. <i>Advanced Functional Materials</i> , 2021 , 31, 2103445	15.6	13
85	Self-Doped and Crown-Ether Functionalized Fullerene as Cathode Buffer Layer for Highly-Efficient Inverted Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	13
84	18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. <i>Nano Today</i> , 2021 , 41, 101289	17.9	13
83	Surface controlled pseudo-capacitive reactions enabling ultra-fast charging and long-life organic lithium ion batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4179-4185	5.8	12
82	Efficient Organic Solar Cells Based on Non-Fullerene Acceptors with Two Planar Thiophene-Fused Perylene Diimide Units. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10746-10754	9.5	12
81	Molecular Order and Dynamics of Nanometric Thin Layers of Poly(styrene- <i>b</i> -1,4-isoprene) Diblock Copolymers. <i>Macromolecules</i> , 2013 , 46, 9729-9737	5.5	12
80	Enhancing the photovoltaic performance of heteroheptacene-based nonfullerene acceptors through the synergistic effect of side-chain engineering and fluorination. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24543-24552	13	12
79	Simultaneous Performance and Stability Improvement of Ternary Polymer Solar Cells Enabled by Modulating the Molecular Packing of Acceptors. <i>Solar Rrl</i> , 2020 , 4, 2000374	7.1	12
78	A novel small molecule based on naphtho[1,2- <i>b</i> :5,6- <i>b'</i>]dithiophene benefits both fullerene and non-fullerene solar cells. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 143-148	7.8	12
77	Reduced graphene oxide-induced crystallization of CuPc interfacial layer for high performance of perovskite photodetectors.. <i>RSC Advances</i> , 2019 , 9, 3800-3808	3.7	11

76	High-Efficient Charge Generation in Single-Donor-Component-Based p-i-n Structure Organic Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900580	7.1	11
75	Vinylene- and ethynylene-bridged perylene diimide dimers as nonfullerene acceptors for polymer solar cells. <i>Dyes and Pigments</i> , 2017 , 146, 143-150	4.6	11
74	Controlled Production of MoS ₂ Full-Scale Nanosheets and Their Strong Size Effects. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001130	4.6	11
73	Combining chlorination and sulfuration strategies for high-performance all-small-molecule organic solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 52, 228-233	12	11
72	Electron-deficient diketone unit engineering for non-fused ring acceptors enabling over 13% efficiency in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14948-14957	13	11
71	Semitransparent Flexible Organic Solar Cells. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 343-350.	0.2	10
70	Poly(pentacyclic lactam-alt-diketopyrrolopyrrole) for field-effect transistors and polymer solar cells processed from non-chlorinated solvents. <i>Polymer Chemistry</i> , 2016 , 7, 164-170	4.9	10
69	Two-step crosslinked liquid-crystalline elastomer with reversible two-way shape memory characteristics. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 650, 13-22	0.5	10
68	Optimizing polymer aggregation and blend morphology for boosting the photovoltaic performance of polymer solar cells via a random terpolymerization strategy. <i>Journal of Energy Chemistry</i> , 2021 , 59, 30-37	12	10
67	Diketopyrrolopyrrole-Porphyrin Based Conjugated Polymers for Ambipolar Field-Effect Transistors. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1861-1864	4.5	9
66	Naphtho[1,2-b:5,6-b']dithiophene-Based Conjugated Polymers for Fullerene-Free Inverted Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700872	4.8	9
65	Study of photovoltaic performances for asymmetrical and symmetrical chlorinated thiophene-bridge-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2301-2306	7.1	9
64	The post-treatment effects on open circuit voltages and device performances in a high efficiency all-small-molecule organic solar cell. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15385-15392	7.1	9
63	Top-Pinning Controlled Dewetting for Fabrication of Large-Scaled Polymer Microwires and Applications in OFETs. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600111	6.4	9
62	Regioregular narrow bandgap copolymer with strong aggregation ability for high-performance semitransparent photovoltaics. <i>Nano Energy</i> , 2021 , 86, 106098	17.1	9
61	Pushing the Efficiency of High Open-Circuit Voltage Binary Organic Solar Cells by Vertical Morphology Tuning.. <i>Advanced Science</i> , 2022 , e2200578	13.6	9
60	Ideal alloys of two donor isomers with non-covalently conformational locking for ternary organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7519-7526	7.1	8
59	Synergistic Effects of Fluorination and Alkylthiolation on the Photovoltaic Performance of the Poly(benzodithiophene-benzothiadiazole) Copolymers. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4686-4694	6.1	8

58	In Situ Observation of Tensile Deformation Processes of Soft Colloidal Crystalline Latex Fibers. <i>Macromolecules</i> , 2009 , 42, 4795-4800	5.5	8
57	Miscibility Control by Tuning Electrostatic Interactions in Bulk Heterojunction for Efficient Organic Solar Cells 2021 , 3, 1276-1283		8
56	18.55% Efficiency Polymer Solar Cells Based on a Small Molecule Acceptor with Alkylthienyl Outer Side Chains and a Low-Cost Polymer Donor PTQ10. <i>CCS Chemistry</i> , 1-28	7.2	8
55	Enhanced photovoltaic effect from naphtho[2,3-c]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14706-14712	13	7
54	The interfacial degradation mechanism of polymer:fullerene bis-adduct solar cells and their stability improvement. <i>Materials Advances</i> , 2020 , 1, 1307-1317	3.3	7
53	Facile Synthesis of the O-Functionalized Ladder-Type Dipyran Building Block and Its Application in Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13931-13940	9.5	7
52	Toward an equilibrium structure in lamellar diblock copolymer thin films using solvent vapor annealing [An in-situ time-resolved GISAXS study. <i>European Polymer Journal</i> , 2016 , 81, 607-620	5.2	7
51	Complex macrophase-separated nanostructure induced by microphase separation in binary blends of lamellar diblock copolymer thin films. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1622-9	4.8	7
50	Simultaneously Enhancing the Jsc and Voc of Ternary Organic Solar Cells by Incorporating a Medium-Band-Gap Acceptor. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3480-3486	6.1	7
49	Modulation of terminal alkyl chain length enables over 15% efficiency in small-molecule organic solar cells. <i>Science China Chemistry</i> , 2021 , 64, 1200-1207	7.9	7
48	A-B small-molecule donors with different end alkyl chains obtain different morphologies in organic solar cells. <i>Chinese Chemical Letters</i> , 2019 , 30, 906-910	8.1	6
47	Dialkoxyphenyldithiophene-based small molecules with enhanced absorption for solution processed organic solar cells. <i>RSC Advances</i> , 2016 , 6, 60595-60601	3.7	6
46	Engineering of the alkyl chain branching point on a lactone polymer donor yields 17.81% efficiency. <i>Journal of Materials Chemistry A</i> ,	13	6
45	Efficient As-Cast Polymer Solar Cells with High and Stabilized Fill Factor. <i>Solar Rrl</i> , 2020 , 4, 2000275	7.1	6
44	Improved photovoltaic properties of PM6-based terpolymer donors containing benzothiadiazole with a siloxane-terminated side chain. <i>Polymer Chemistry</i> , 2020 , 11, 6178-6186	4.9	6
43	Extended Nonfullerene Acceptors for Efficient Organic Solar Cells with a High Open-Circuit Voltage of 0.94 V and a Low Energy Loss of 0.49 eV. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22531-22539	9.5	6
42	Achieving 10% efficiency in non-fullerene all-small-molecule organic solar cells without extra treatments. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10427-10436	13	6
41	Optimizing the Charge Carrier and Light Management of Nonfullerene Acceptors for Efficient Organic Solar Cells with Small Nonradiative Energy Losses. <i>Solar Rrl</i> , 2021 , 5, 2100008	7.1	6

40	Effect of bifurcation point of alkoxy side chains on photovoltaic performance of 5-alkoxy-6-fluorobenzo[c][1,2,5]thiadiazole-based conjugated polymers. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 154, 42-48	6.4	5
39	Conjugated Mesopolymer Achieving 15% Efficiency Single-Junction Organic Solar Cells.. <i>Advanced Science</i> , 2022 , e2105430	13.6	5
38	Building Supramolecular Chirality in Bulk Heterojunctions Enables Amplified Dissymmetry Current for High-Performing Circularly Polarized Light Detection 2022 , 4, 401-409		5
37	Constructing high efficiency non-fullerene all-small-molecule ternary organic solar cells by employing structurally similar acceptors. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1405-1409	7.8	5
36	Nanoscale heterogeneous distribution of surface energy at interlayers in organic bulk-heterojunction solar cells. <i>Joule</i> , 2021 ,	27.8	5
35	Crystallinity modulation of donors by heteroatom side-chain engineering and solvent additive achieving 14.3% all-small-molecule organic solar cells. <i>Journal of Materials Chemistry A</i> ,	13	5
34	An asymmetric small-molecule donor enables over 18% efficiency in ternary organic solar cells. <i>Journal of Materials Chemistry A</i> ,	13	5
33	Precise Control of Crystal Orientation of Conjugated Molecule Enables Anisotropic Charge Transport Properties. <i>Advanced Functional Materials</i> ,2110080	15.6	4
32	Creating Side Transport Pathways in Organic Solar Cells by Introducing Delayed Fluorescence Molecules. <i>Chemistry of Materials</i> , 2021 , 33, 4578-4585	9.6	4
31	Small Exciton Binding Energies Enabling Direct Charge Photogeneration Towards Low-Driving-Force Organic Solar Cells. <i>Angewandte Chemie</i> , 2021 , 133, 15476-15481	3.6	4
30	Optimizing the energy levels and crystallinity of 2,2?-bithiophene-3,3?-dicarboximide-based polymer donors for high-performance non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7575-7582	7.1	4
29	Simultaneously Decreasing the Bandgap and V oc Loss in Efficient Ternary Organic Solar Cells. <i>Advanced Energy Materials</i> ,2200129	21.8	4
28	Reducing the actuation threshold by incorporating a nonliquid crystal chain into a liquid crystal elastomer.. <i>RSC Advances</i> , 2018 , 8, 4857-4866	3.7	3
27	Thin-film morphologies of block copolymers with nanoparticles. <i>Powder Diffraction</i> , 2015 , 30, S16-S24	1.8	3
26	Effect of solvent annealing on the tensile deformation mechanism of a colloidal crystalline polymeric latex film. <i>Langmuir</i> , 2011 , 27, 12197-200	4	3
25	Small-molecule acceptors with long alkyl chains for high-performance as-cast nonfullerene organic solar cells. <i>Organic Electronics</i> , 2021 , 93, 106167	3.5	3
24	Ultrasonics Sonochemistry Assisted Preparation of Polysiloxane Main-Chain Liquid-Crystalline Elastomers. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000071	2.6	2
23	Non-Fullerene Acceptors With A2 = A1-D-A1 = A2 Skeleton Containing Benzothiadiazole and Thiazolidine-2,4-Dione for High-Performance P3HT-Based Organic Solar Cells (Solar RRL 110017). <i>Solar Rrl</i> , 2017 , 1, 1770142	7.1	2

22	The effect of tuning chemical structure on the open-circuit voltage and photovoltaic performance of narrow band-gap polymers. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 699-706	2.5	2
21	Radial structure of commercial styrene-co-butyl acrylate latex particles by means of synchrotron small-angle X-ray scattering under contrast-variation conditions 2011 , 8, 489-496		2
20	A privileged ternary blend enabling non-fullerene organic photovoltaics with over 14% efficiency. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15135-15141	7.1	2
19	Enhancing the performances of all-small-molecule ternary organic solar cells via achieving optimized morphology and 3D charge pathways. <i>Chinese Chemical Letters</i> , 2021 , 32, 2904-2904	8.1	2
18	The substituents on the intermediate electron-deficient groups in small molecular acceptors result appropriate morphologies for organic solar cells. <i>Organic Electronics</i> , 2021 , 93, 106133	3.5	2
17	Top and bottom electrode optimization enabled high-performance flexible and semi-transparent organic solar cells. <i>Materials Chemistry Frontiers</i> ,	7.8	2
16	Fluorination Induced Donor to Acceptor Transformation in A1-D-A2-D-A1-Type Photovoltaic Small Molecules. <i>Frontiers in Chemistry</i> , 2018 , 6, 384	5	2
15	Achieving 18.14% Efficiency of Ternary Organic Solar Cells with Alloyed Nonfullerene Acceptor. <i>Small Structures</i> ,2100099	8.7	2
14	Effect of Side-Chain Variation on Single-Crystalline Structures for Revealing the StructureProperty Relationships of Organic Solar Cells. <i>Organic Materials</i> , 2020 , 02, 026-032	1.9	1
13	Polymerized Small-Molecule Acceptor as an Interface Modulator to Increase the Performance of All-Small-Molecule Solar Cells. <i>Advanced Energy Materials</i> ,2102394	21.8	1
12	Mixed Solvent as a Critical Factor in Optimizing Phase Separation of All Small Molecule Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11769-11776	6.1	1
11	Achieving a Higher Energy Charge-Transfer State and Reduced Voltage Loss for Organic Solar Cells using Nonfullerene Acceptors with Norbornenyl-Functionalized Terminal Groups. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24765-24773	9.5	1
10	Single-Crystalline Structure Assisted Revealing the Critical Factors for the Properties of All-Small-Molecule Organic Solar Cells. <i>Advanced Energy and Sustainability Research</i> ,2100099	1.6	1
9	Quantum-sized silicon for enhanced photoluminescence and optical nonlinearity. <i>Materials Chemistry Frontiers</i> ,	7.8	1
8	Influence of the terminal group on optoelectronic properties of fused-ring nonfullerene acceptors with ethylhexyl side chain. <i>Dyes and Pigments</i> , 2021 , 194, 109635	4.6	1
7	Utilizing Ternary Strategy to Reduce the Influence of Polymer Batch-to-Batch Variation in Organic Solar Cells. <i>Solar Rrl</i> ,2101083	7.1	1
6	Terminal alkyl chain tuning of small molecule donor enables optimized morphology and efficient all-small-molecule organic solar cells. <i>Dyes and Pigments</i> , 2022 , 200, 110147	4.6	1
5	Rational tuning of intermolecular and intramolecular interactions enabling high-efficiency indoor organic photovoltaics. <i>Nano Energy</i> , 2022 , 99, 107414	17.1	1

4	Probing molecular orientation at bulk heterojunctions by polarization-selective transient absorption spectroscopy. <i>Science China Chemistry</i> , 2021 , 64, 1569-1576	7.9	o
3	Alignment of organic conjugated molecules for high-performance device applications.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100931	4.8	o
2	Understanding effects of two different acceptors in one small molecule for solution processable organic solar cells. <i>RSC Advances</i> , 2015 , 5, 61703-61709	3.7	
1	Optimized Charge Transport Channel Enables Thick-Film All-Small-Molecule Organic Solar Cells. <i>Energy & Fuels</i> , 2021 , 35, 19756-19764	4.1	