

Xinhui Lu

List of Publications by Year in descending order

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416
papers

32,290
citations

3515

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5965

160
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all docs

417
docs citations

417
times ranked

15850
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. <i>Joule</i> , 2019, 3, 1140-1151.	11.7	4,052
2	A Facile Planar Fused-Ring Electron Acceptor for As-Cast Polymer Solar Cells with 8.71% Efficiency. <i>Journal of the American Chemical Society</i> , 2016, 138, 2973-2976.	6.6	885
3	Fused Nonacyclic Electron Acceptors for Efficient Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 1336-1343.	6.6	813
4	Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. <i>Energy and Environmental Science</i> , 2020, 13, 635-645.	15.6	636
5	Layer-by-Layer Processed Ternary Organic Photovoltaics with Efficiency over 18%. <i>Advanced Materials</i> , 2021, 33, e2007231.	11.1	438
6	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. <i>Journal of the American Chemical Society</i> , 2020, 142, 20134-20142.	6.6	414
7	Fused Hexacyclic Nonfullerene Acceptor with Strong Near-Infrared Absorption for Semitransparent Organic Solar Cells with 9.77% Efficiency. <i>Advanced Materials</i> , 2017, 29, 1701308.	11.1	364
8	Effect of Isomerization on High-Performance Nonfullerene Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2018, 140, 9140-9147.	6.6	361
9	Simple non-fused electron acceptors for efficient and stable organic solar cells. <i>Nature Communications</i> , 2019, 10, 2152.	5.8	348
10	A spirobifluorene and diketopyrrolopyrrole moieties based non-fullerene acceptor for efficient and thermally stable polymer solar cells with high open-circuit voltage. <i>Energy and Environmental Science</i> , 2016, 9, 604-610.	15.6	347
11	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. <i>Joule</i> , 2020, 4, 1236-1247.	11.7	344
12	A monothiophene unit incorporating both fluoro and ester substitution enabling high-performance donor polymers for non-fullerene solar cells with 16.4% efficiency. <i>Energy and Environmental Science</i> , 2019, 12, 3328-3337.	15.6	337
13	Orientation Regulation of Phenylethylammonium Cation Based 2D Perovskite Solar Cell with Efficiency Higher Than 11%. <i>Advanced Energy Materials</i> , 2018, 8, 1702498.	10.2	313
14	Enhancing the Performance of Polymer Solar Cells via Core Engineering of NIR-Absorbing Electron Acceptors. <i>Advanced Materials</i> , 2018, 30, e1706571.	11.1	309
15	Fused Benzothiadiazole: A Building Block for n-Type Organic Acceptor to Achieve High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1807577.	11.1	297
16	Highly Tunable Selectivity for Syngas-Derived Alkenes over Zinc and Sodium-Modulated Fe ₅ C ₂ Catalyst. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9902-9907.	7.2	296
17	Improving open-circuit voltage by a chlorinated polymer donor endows binary organic solar cells efficiencies over 17%. <i>Science China Chemistry</i> , 2020, 63, 325-330.	4.2	292
18	Selenium Heterocyclic Electron Acceptor with Small Urbach Energy for As-Cast High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 18741-18745.	6.6	288

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19	Precisely Controlling the Position of Bromine on the End Group Enables Well-Ordered Regular Polymer Acceptors for All-Polymer Solar Cells with Efficiencies over 15%. <i>Advanced Materials</i> , 2020, 32, e2005942.	11.1	282
20	Achieving over 17% efficiency of ternary all-polymer solar cells with two well-compatible polymer acceptors. <i>Joule</i> , 2021, 5, 1548-1565.	11.7	281
21	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 395-403.	5.2	272
22	16.7%-efficiency ternary blended organic photovoltaic cells with PCBM as the acceptor additive to increase the open-circuit voltage and phase purity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20713-20722.	5.2	266
23	Modulation of Defects and Interfaces through Alkylammonium Interlayer for Efficient Inverted Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 1248-1262.	11.7	260
24	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. <i>Nature Photonics</i> , 2021, 15, 681-689.	15.6	255
25	Anionic defect engineering of transition metal oxides for oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5875-5897.	5.2	252
26	Asymmetric Electron Acceptors for High-Efficiency and Low-Energy-Loss Organic Photovoltaics. <i>Advanced Materials</i> , 2020, 32, e2001160.	11.1	246
27	Bioinspired Janus Textile with Conical Micropores for Human Body Moisture and Thermal Management. <i>Advanced Materials</i> , 2019, 31, e1904113.	11.1	243
28	Realizing Small Energy Loss of 0.55 eV, High Open-Circuit Voltage >1 V and High Efficiency >10% in Fullerene-Free Polymer Solar Cells via Energy Driver. <i>Advanced Materials</i> , 2017, 29, 1605216.	11.1	230
29	16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. <i>Joule</i> , 2021, 5, 914-930.	11.7	228
30	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. <i>Journal of the American Chemical Society</i> , 2018, 140, 8934-8943.	6.6	218
31	A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. <i>Energy and Environmental Science</i> , 2019, 12, 2529-2536.	15.6	213
32	Hidden Structure Ordering Along Backbone of Fused-Ring Electron Acceptors Enhanced by Ternary Bulk Heterojunction. <i>Advanced Materials</i> , 2018, 30, e1802888.	11.1	212
33	Fullerene derivative anchored SnO ₂ for high-performance perovskite solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 3463-3471.	15.6	205
34	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2711-2720.	8.8	188
35	Reducing Hysteresis and Enhancing Performance of Perovskite Solar Cells Using Low-Temperature Processed Y-doped SnO_2 Nanosheets as Electron Selective Layers. <i>Small</i> , 2017, 13, 1601769.	5.2	183
36	Unveiling the additive-assisted oriented growth of perovskite crystallite for high performance light-emitting diodes. <i>Nature Communications</i> , 2021, 12, 5081.	5.8	178

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37	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12964-12970.	7.2	172
38	High-Performance Blue Perovskite Light-Emitting Diodes Enabled by Efficient Energy Transfer between Coupled Quasi-2D Perovskite Layers. <i>Advanced Materials</i> , 2021, 33, e2005570.	11.1	171
39	High-performance and eco-friendly semitransparent organic solar cells for greenhouse applications. <i>Joule</i> , 2021, 5, 945-957.	11.7	171
40	Concurrent improvement in J_{SC} and V_{OC} in high-efficiency ternary organic solar cells enabled by a red-absorbing small-molecule acceptor with a high LUMO level. <i>Energy and Environmental Science</i> , 2020, 13, 2115-2123.	15.6	164
41	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. <i>Advanced Functional Materials</i> , 2020, 30, 2000456.	7.8	164
42	High-Performance Noncovalently Fused Ring Electron Acceptors for Organic Solar Cells Enabled by Noncovalent Intramolecular Interactions and End-Group Engineering. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12475-12481.	7.2	155
43	Improving the Activity for Oxygen Evolution Reaction by Tailoring Oxygen Defects in Double Perovskite Oxides. <i>Advanced Functional Materials</i> , 2019, 29, 1901783.	7.8	152
44	Understanding Morphology Compatibility for High-Performance Ternary Organic Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 6186-6195.	3.2	150
45	Thiazole Imide-Based All-Acceptor Homopolymer: Achieving High-Performance Unipolar Electron Transport in Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2018, 30, 1705745.	11.1	150
46	Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for All-Polymer Solar Cells with 15.2% Efficiency. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10137-10146.	7.2	145
47	Achieving high efficiency and well-kept ductility in ternary all-polymer organic photovoltaic blends thanks to two well miscible donors. <i>Matter</i> , 2022, 5, 725-734.	5.0	145
48	High-Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and See-Through Functions. <i>Advanced Materials</i> , 2020, 32, e2001621.	11.1	140
49	Zwitterionic-Surfactant-Assisted Room-Temperature Coating of Efficient Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 2404-2425.	11.7	137
50	Revisiting the origin of cycling enhanced capacity of Fe ₃ O ₄ based nanostructured electrode for lithium ion batteries. <i>Nano Energy</i> , 2017, 41, 426-433.	8.2	136
51	Graded bulk-heterojunction enables 17% binary organic solar cells via nonhalogenated open air coating. <i>Nature Communications</i> , 2021, 12, 4815.	5.8	135
52	Molecular Lock: A Versatile Key to Enhance Efficiency and Stability of Organic Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5822-5829.	11.1	134
53	Highly Selective Olefin Production from CO ₂ Hydrogenation on Iron Catalysts: A Subtle Synergy between Manganese and Sodium Additives. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21736-21744.	7.2	132
54	A Vinylene-Linker-Based Polymer Acceptor Featuring a Coplanar and Rigid Molecular Conformation Enables High-Performance All-Polymer Solar Cells with Over 17% Efficiency. <i>Advanced Materials</i> , 2022, 34, e2200361.	11.1	131

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55	Manipulating the Mixed Perovskite Crystallization Pathway Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , 2019, 31, e1901284.	11.1	127
56	Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 1371-1379.	8.8	126
57	Three Novel Silver Complexes with Ligand-Unsupported Argentophilic Interactions and Their Luminescent Properties. <i>Inorganic Chemistry</i> , 2006, 45, 3679-3685.	1.9	125
58	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. <i>Joule</i> , 2018, 2, 2706-2721.	11.7	124
59	Highly Efficient Sn/Pb Binary Perovskite Solar Cell via Precursor Engineering: A Two-Step Fabrication Process. <i>Advanced Functional Materials</i> , 2019, 29, 1807024.	7.8	122
60	Precise Control of Perovskite Crystallization Kinetics via Sequential A-Site Doping. <i>Advanced Materials</i> , 2020, 32, e2004630.	11.1	122
61	Composition-Tuned Wide Bandgap Perovskites: From Grain Engineering to Stability and Performance Improvement. <i>Advanced Functional Materials</i> , 2018, 28, 1803130.	7.8	121
62	Revealing the effects of molecular packing on the performances of polymer solar cells based on A-D-A type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12132-12141.	5.2	119
63	The Second Spacer Cation Assisted Growth of a 2D Perovskite Film with Oriented Large Grain for Highly Efficient and Stable Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9409-9413.	7.2	118
64	Nanoimprint-Induced Molecular Orientation in Semiconducting Polymer Nanostructures. <i>ACS Nano</i> , 2011, 5, 7532-7538.	7.3	117
65	Efficient Organic Solar Cells with Extremely High Open-Circuit Voltages and Low Voltage Losses by Suppressing Nonradiative Recombination Losses. <i>Advanced Energy Materials</i> , 2018, 8, 1801699.	10.2	117
66	Near-Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1803769.	11.1	116
67	Tailoring vertical phase distribution of quasi-two-dimensional perovskite films via surface modification of hole-transporting layer. <i>Nature Communications</i> , 2019, 10, 878.	5.8	115
68	Multifunctional Carbon-Silica Nanocapsules with Gold Core for Synergistic Photothermal and Chemotherapy under the Guidance of Bimodal Imaging. <i>Advanced Functional Materials</i> , 2016, 26, 4252-4261.	7.8	113
69	Low-temperature solution-processed NiO _x films for air-stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11071-11077.	5.2	113
70	8.78% Efficient All-Polymer Solar Cells Enabled by Polymer Acceptors Based on a N Embedded Electron-Deficient Unit. <i>Advanced Materials</i> , 2019, 31, e1904585.	11.1	113
71	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18%. <i>Nature Communications</i> , 2022, 13, 2598.	5.8	113
72	Fused Ring Electron Acceptor ITIC _{th} : A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , 2018, 8, 1703399.	10.2	112

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73	Effects of Alkyl Chain Length on Crystal Growth and Oxidation Process of Two-Dimensional Tin Halide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 1422-1429.	8.8	112
74	High-Efficiency Ternary Organic Solar Cells with a Good Figure-of-Merit Enabled by Two Low-Cost Donor Polymers. <i>ACS Energy Letters</i> , 2022, 7, 2547-2556.	8.8	109
75	Functionalized self-assembling peptide nanofiber hydrogels mimic stem cell niche to control human adipose stem cell behavior in vitro. <i>Acta Biomaterialia</i> , 2013, 9, 6798-6805.	4.1	108
76	Multifunctional Crosslinking-Enabled Strain-Regulating Crystallization for Stable, Efficient FAPbI_3 -Based Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008487.	11.1	106
77	A Systematic Review of Metal Halide Perovskite Crystallization and Film Formation Mechanism Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , 2021, 33, e2105290.	11.1	104
78	Altering the Positions of Chlorine and Bromine Substitution on the End Group Enables High-Performance Acceptor and Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2002649.	10.2	103
79	Effect of Core Size on Performance of Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , 2018, 30, 5390-5396.	3.2	102
80	Dual-Accepting-Unit Design of Donor Material for All-Small-Molecule Organic Solar Cells with Efficiency Approaching 11%. <i>Chemistry of Materials</i> , 2018, 30, 8661-8668.	3.2	101
81	Bilayer order in a polycarbazole-conjugated polymer. <i>Nature Communications</i> , 2012, 3, 795.	5.8	100
82	Reductive Transformation of Layered Double Hydroxide Nanosheets to Fe -Based Heterostructures for Efficient Visible-Light Photocatalytic Hydrogenation of CO . <i>Advanced Materials</i> , 2018, 30, e1803127.	11.1	100
83	Achieving 16.68% efficiency ternary as-cast organic solar cells. <i>Science China Chemistry</i> , 2021, 64, 581-589.	4.2	99
84	Efficient and bright warm-white electroluminescence from lead-free metal halides. <i>Nature Communications</i> , 2021, 12, 1421.	5.8	99
85	Triplet exciton formation for non-radiative voltage loss in high-efficiency nonfullerene organic solar cells. <i>Joule</i> , 2021, 5, 1832-1844.	11.7	98
86	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. <i>Nature Communications</i> , 2021, 12, 4627.	5.8	98
87	A non-fullerene acceptor with a fully fused backbone for efficient polymer solar cells with a high open-circuit voltage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14983-14987.	5.2	97
88	Molecular insights of exceptionally photostable electron acceptors for organic photovoltaics. <i>Nature Communications</i> , 2021, 12, 3049.	5.8	97
89	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , 2019, 4, 534-541.	8.8	96
90	Vertical Orientated Dion-Jacobson Quasi-2D Perovskite Film with Improved Photovoltaic Performance and Stability. <i>Small Methods</i> , 2020, 4, 1900831.	4.6	96

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91	A Near-Infrared Photoactive Morphology Modifier Leads to Significant Current Improvement and Energy Loss Mitigation for Ternary Organic Solar Cells. <i>Advanced Science</i> , 2018, 5, 1800755.	5.6	93
92	Near-Infrared Electron Acceptors with Unfused Architecture for Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16700-16706.	4.0	93
93	Imide-Functionalized Thiazole-Based Polymer Semiconductors: Synthesis, Structure-Property Correlations, Charge Carrier Polarity, and Thin-Film Transistor Performance. <i>Chemistry of Materials</i> , 2018, 30, 7988-8001.	3.2	92
94	All-Perovskite Emission Architecture for White Light-Emitting Diodes. <i>ACS Nano</i> , 2018, 12, 10486-10492.	7.3	92
95	Room-Temperature Meniscus Coating of >20% Perovskite Solar Cells: A Film Formation Mechanism Investigation. <i>Advanced Functional Materials</i> , 2019, 29, 1900092.	7.8	92
96	High-Performance Organic Solar Cells from Non-Halogenated Solvents. <i>Advanced Functional Materials</i> , 2022, 32, 2107827.	7.8	92
97	Morphology of organic photovoltaic non-fullerene acceptors investigated by grazing incidence X-ray scattering techniques. <i>Materials Today Nano</i> , 2019, 5, 100030.	2.3	91
98	An Electron Acceptor Analogue for Lowering Trap Density in Organic Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008134.	11.1	91
99	In vivo studies on angiogenic activity of two designer self-assembling peptide scaffold hydrogels in the chicken embryo chorioallantoic membrane. <i>Nanoscale</i> , 2012, 4, 2720.	2.8	89
100	A Dopant-Free Polymeric Hole-Transporting Material Enabled High Fill Factor Over 81% for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1902600.	10.2	89
101	Fluorinated End Group Enables High-Performance All-Polymer Solar Cells with Near-Infrared Absorption and Enhanced Device Efficiency over 14%. <i>Advanced Energy Materials</i> , 2021, 11, 2003171.	10.2	89
102	Alkyl Chain Length Effects of Polymer Donors on the Morphology and Device Performance of Polymer Solar Cells with Different Acceptors. <i>Advanced Energy Materials</i> , 2019, 9, 1901740.	10.2	88
103	Tuning terminal aromatics of electron acceptors to achieve high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27632-27639.	5.2	86
104	Photo-Cross-Linkable Azide-Functionalized Polythiophene for Thermally Stable Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2012, 45, 2338-2347.	2.2	85
105	All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. <i>Aggregate</i> , 2022, 3, e58.	5.2	85
106	<i>In situ</i> and <i>ex situ</i> investigations on ternary strategy and co-solvent effects towards high-efficiency organic solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 2479-2488.	15.6	84
107	Creating polymer hydrogel microfibrils with internal alignment via electrical and mechanical stretching. <i>Biomaterials</i> , 2014, 35, 3243-3251.	5.7	83
108	Energy-level modulation of non-fullerene acceptors to achieve high-efficiency polymer solar cells at a diminished energy offset. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9649-9654.	5.2	83

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109	General Nondestructive Passivation by 4-Fluoroaniline for Perovskite Solar Cells with Improved Performance and Stability. <i>Small</i> , 2018, 14, e1803350.	5.2	82
110	Side-Chain Engineering on Y-Series Acceptors with Chlorinated End Groups Enables High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003777.	10.2	82
111	Alkoxy-Induced Near-Infrared Sensitive Electron Acceptor for High-Performance Organic Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 4150-4156.	3.2	79
112	Triplet Acceptors with a D _A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15043-15049.	7.2	77
113	High Capacity and Fast Kinetics of Potassium-Ion Batteries Boosted by Nitrogen-Doped Mesoporous Carbon Spheres. <i>Nano-Micro Letters</i> , 2021, 13, 174.	14.4	77
114	Near-Infrared Nonfullerene Acceptors Based on Benzobis(thiazole) Unit for Efficient Organic Solar Cells with Low Energy Loss. <i>Small Methods</i> , 2019, 3, 1900531.	4.6	76
115	High efficiency ternary organic solar cell with morphology-compatible polymers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11739-11745.	5.2	74
116	Crystallinity Preservation and Ion Migration Suppression through Dual Ion Exchange Strategy for Stable Mixed Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700118.	10.2	74
117	Panchromatic Ternary Photovoltaic Cells Using a Nonfullerene Acceptor Synthesized Using C-H Functionalization. <i>Chemistry of Materials</i> , 2018, 30, 309-313.	3.2	74
118	High-Efficiency All-Polymer Solar Cells with Poly-Small-Molecule Acceptors Having π -Extended Units with Broad Near-IR Absorption. <i>ACS Energy Letters</i> , 2021, 6, 728-738.	8.8	74
119	A Free-Standing High-Output Power Density Thermoelectric Device Based on Structure-Ordered PEDOT:PSS. <i>Advanced Electronic Materials</i> , 2018, 4, 1700496.	2.6	73
120	The synergy of host-guest nonfullerene acceptors enables 16%-efficiency polymer solar cells with increased open-circuit voltage and fill-factor. <i>Materials Horizons</i> , 2019, 6, 2094-2102.	6.4	73
121	Designing a Perylene Diimide/Fullerene Hybrid as Effective Electron Transporting Material in Inverted Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8520-8525.	7.2	73
122	High-Performance Fused Ring Electron Acceptor-Perovskite Hybrid. <i>Journal of the American Chemical Society</i> , 2018, 140, 14938-14944.	6.6	71
123	Noise reduction in optical coherence tomography images using a deep neural network with perceptually-sensitive loss function. <i>Biomedical Optics Express</i> , 2020, 11, 817.	1.5	71
124	Two Halogeno(cyano)cuprates with Long-Lived and Strong Luminescence. <i>Inorganic Chemistry</i> , 2005, 44, 4282-4286.	1.9	69
125	Isomerization of Perylene Diimide Based Acceptors Enabling High-Performance Nonfullerene Organic Solar Cells with Excellent Fill Factor. <i>Advanced Science</i> , 2019, 6, 1802065.	5.6	69
126	Antibacterial Property of a Polyethylene Glycol-Grafted Dental Material. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17688-17692.	4.0	67

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127	Heteroheptacene-based acceptors with thieno[3,4-c]pyrrole yield high-performance polymer solar cells. <i>National Science Review</i> , 2022, 9, .	4.6	67
128	Short-range order and near-field effects on optical scattering and structural coloration. <i>Optics Express</i> , 2011, 19, 8208.	1.7	65
129	Intralayer A-Site Compositional Engineering of Ruddlesden-Popper Perovskites for Thermostable and Efficient Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 1216-1224.	8.8	65
130	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. <i>ACS Energy Letters</i> , 2019, 4, 1025-1033.	8.8	64
131	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition. <i>Advanced Materials</i> , 2022, 34, e2200276.	11.1	64
132	How a Liquid Becomes a Glass Both on Cooling and on Heating. <i>Physical Review Letters</i> , 2008, 100, 045701.	2.9	62
133	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy Band Engineering. <i>Advanced Materials</i> , 2019, 31, e1902543.	11.1	62
134	Modifying Surface Termination of CsPb ₃ Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , 2021, 31, 2009515.	7.8	62
135	Compromising Charge Generation and Recombination with Asymmetric Molecule for High-Performance Binary Organic Photovoltaics with Over 18% Certified Efficiency. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	62
136	Non-fullerene Acceptors with a Thieno[3,4-c]pyrrole-4,6-dione (TPD) Core for Efficient Organic Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 1005-1014.	2.0	61
137	Electron acceptors with varied linkages between perylene diimide and benzotrithiophene for efficient fullerene-free solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9396-9401.	5.2	60
138	In-situ Transmission Electron Microscope Techniques for Heterogeneous Catalysis. <i>ChemCatChem</i> , 2020, 12, 1853-1872.	1.8	60
139	Highly Efficient Guanidinium-Based Quasi 2D Perovskite Solar Cells via a Two-Step Post-treatment Process. <i>Small Methods</i> , 2019, 3, 1900375.	4.6	59
140	Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. <i>Nano Energy</i> , 2019, 63, 103807.	8.2	59
141	A Spider-Silk-Inspired Wet Adhesive with Supercold Tolerance. <i>Advanced Materials</i> , 2021, 33, e2007301.	11.1	59
142	Air-Processed Efficient Organic Solar Cells from Aromatic Hydrocarbon Solvent without Solvent Additive or Post-treatment: Insights into Solvent Effect on Morphology. <i>Energy and Environmental Materials</i> , 2022, 5, 977-985.	7.3	59
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