

# Xinhui Lu

## List of Publications by Year in descending order

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Version: 2024-02-01

416  
papers

32,290  
citations

3515

90  
h-index

5965

160  
g-index

417  
all docs

417  
docs citations

417  
times ranked

15850  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkyl side chain engineering enables high performance as-cast organic solar cells of over 17% efficiency. <i>Fundamental Research</i> , 2023, 3, 611-617.	1.6	10
2	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
3	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
4	Optimizing side chains on different nitrogen aromatic rings achieving 17% efficiency for organic photovoltaics. <i>Journal of Energy Chemistry</i> , 2022, 65, 173-178.	7.1	22
5	Ternary polymerization strategy to approach 12% efficiency in all-polymer solar cells processed by green solvent and additive. <i>Chemical Engineering Journal</i> , 2022, 429, 132407.	6.6	15
6	Ester side chains engineered quinoxaline based D-A copolymers for high-efficiency all-polymer solar cells. <i>Chemical Engineering Journal</i> , 2022, 429, 132551.	6.6	16
7	Improving the device performance of organic solar cells with immiscible solid additives. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2749-2756.	2.7	8
8	High-Performance Organic Solar Cells from Non-Halogenated Solvents. <i>Advanced Functional Materials</i> , 2022, 32, 2107827.	7.8	92
9	Highly oriented MAPbI <sub>3</sub> crystals for efficient hole-conductor-free printable mesoscopic perovskite solar cells. <i>Fundamental Research</i> , 2022, 2, 276-283.	1.6	40
10	Construction of three-dimensional nitrogen doped porous carbon flake electrodes for advanced potassium-ion hybrid capacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1940-1949.	5.0	23
11	A New End Group on Nonfullerene Acceptors Endows Efficient Organic Solar Cells with Low Energy Losses. <i>Advanced Functional Materials</i> , 2022, 32, 2108614.	7.8	56
12	Effect of Molecular Symmetry on Fused-Ring Electron Acceptors. <i>Solar Rrl</i> , 2022, 6, 2100797.	3.1	3
13	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
14	Copper phosphotungstate as low cost, solution-processed, stable inorganic anode interfacial material enables organic photovoltaics with over 18% efficiency. <i>Nano Energy</i> , 2022, 94, 106923.	8.2	20
15	Influence of altering chlorine substitution positions on the photovoltaic properties of small molecule donors in all-small-molecule organic solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2017-2025.	2.7	12
16	Simple thiazole-centered oligothiophene donor enables 15.4% efficiency all small molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3009-3017.	5.2	28
17	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
18	Revealing the microstructure-related light-induced degradation for all-polymer solar cells based on regioisomerized end-capping group acceptors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1246-1258.	2.7	10

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19	Understanding the molecular mechanisms of the differences in the efficiency and stability of all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1850-1861.	2.7	9
20	Chloronaphthalene-Induced Donor/Acceptor Vertical Distribution and Carrier Dynamics Changes in Nonfullerene Organic Solar Cells and the Governed Mechanism. <i>Small Methods</i> , 2022, 6, e2101475.	4.6	19
21	Novel Oligomer Enables Green Solvent Processed 17.5% Ternary Organic Solar Cells: Synergistic Energy Loss Reduction and Morphology Fine-Tuning. <i>Advanced Materials</i> , 2022, 34, e2107659.	11.1	57
22	Unidirectionally aligned bright quantum rods films, using T-shape ligands, for LCD application. <i>Nano Research</i> , 2022, 15, 5392-5401.	5.8	8
23	High-Performance All-Small-Molecule Organic Solar Cells Enabled by Regioisomerization of Noncovalently Conformational Locks. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	34
24	ZnO electron transporting layer engineering realized over 20% efficiency and over 1.28 V open-circuit voltage in inorganic perovskite solar cells. <i>EcoMat</i> , 2022, 4, .	6.8	23
25	Pushing the Efficiency of High Open-Circuit Voltage Binary Organic Solar Cells by Vertical Morphology Tuning. <i>Advanced Science</i> , 2022, 9, e2200578.	5.6	51
26	Revealing the Sole Impact of Acceptor's Molecular Conformation to Energy Loss and Device Performance of Organic Solar Cells through Positional Isomers. <i>Advanced Science</i> , 2022, 9, e2103428.	5.6	9
27	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
28	Non-fused medium bandgap electron acceptors for efficient organic photovoltaics. <i>Journal of Energy Chemistry</i> , 2022, 70, 576-582.	7.1	22
29	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
30	WET-Induced Layered Organohydrogel as Bioinspired "Sticky" Slippery Skin for Robust Underwater Oil-Repellency. <i>Advanced Materials</i> , 2022, 34, e2110408.	11.1	29
31	Symmetrically Fluorinated Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene-Cored Donor for High-Performance All-Small-Molecule Organic Solar Cells with Improved Active Layer Morphology and Crystallinity. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14532-14540.	4.0	10
32	Side-chain engineering with chalcogen-containing heterocycles on non-fullerene acceptors for efficient organic solar cells. <i>Chemical Engineering Journal</i> , 2022, 441, 135998.	6.6	12
33	15.71% Efficiency All-Small-Molecule Organic Solar Cells Based on Low-Cost Synthesized Donor Molecules. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	34
34	In situ and ex situ 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
35	High Open Circuit Voltage Over 1ÅV Achieved in Tin-Based Perovskite Solar Cells with a 2D/3D Vertical Heterojunction. <i>Advanced Science</i> , 2022, 9, e2200242.	5.6	46
36	15.8% efficiency all-small-molecule solar cells enabled by a combination of side-chain engineering and polymer additive. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10926-10934.	5.2	12

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37	High-performance see-through power windows. <i>Energy and Environmental Science</i> , 2022, 15, 2629-2637.	15.6	51
38	Heteroheptacene-based acceptors with thieno[3,2-b]pyrrole yield high-performance polymer solar cells. <i>National Science Review</i> , 2022, 9, .	4.6	67
39	Enhancing Transition Dipole Moments of Heterocyclic Semiconductors via Rational Nitrogen-Substitution for Sensitive Near Infrared Detection. <i>Advanced Materials</i> , 2022, 34, e2201600.	11.1	19
40	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18%. <i>Nature Communications</i> , 2022, 13, 2598.	5.8	113
41	Ambipolar-transport wide-bandgap perovskite interlayer for organic photovoltaics with over 18% efficiency. <i>Matter</i> , 2022, 5, 2238-2250.	5.0	14
42	Effect of Isomerization of Linking Units on the Photovoltaic Performance of PSMA-Type Polymer Acceptors in All-Polymer Solar Cells. <i>Macromolecules</i> , 2022, 55, 4420-4428.	2.2	11
43	Realizing the efficiency-stability balance for all-polymer photovoltaic blends. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9723-9729.	2.7	12
44	End group engineering enabling organic solar cells with high open-circuit voltage. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 374002.	1.3	1
45	Tailoring the Morphology's Microevolution for Binary All-Polymer Solar Cells Processed by Aromatic Hydrocarbon Solvent with 16.22% Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 29956-29963.	4.0	17
46	Modulating the nanoscale morphology on carboxylate-pyrazine containing terpolymer toward 17.8% efficiency organic solar cells with enhanced thermal stability. <i>Chemical Engineering Journal</i> , 2022, 446, 137424.	6.6	14
47	NIR Photodetectors with Highly Efficient Detectivity Enabled by 2D Fluorinated Dithienopicenocarbazole-Based Ultra-Narrow Bandgap Acceptors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	24
48	Selective doping of a single ambipolar organic semiconductor to obtain P- and N-type semiconductors. <i>Matter</i> , 2022, 5, 2882-2897.	5.0	10
49	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
50	Organic Photovoltaic Catalyst with Extended Exciton Diffusion for High-Performance Solar Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2022, 144, 12747-12755.	6.6	26
51	Versatile Sequential Casting Processing for Highly Efficient and Stable Binary Organic Photovoltaics. <i>Advanced Materials</i> , 2022, 34, .	11.1	52
52	A Pyrrole-Fused Asymmetrical Electron Acceptor for Polymer Solar Cells with Approaching 16% Efficiency. <i>Small Structures</i> , 2021, 2, 2000052.	6.9	14
53	Intrinsically Chemo- and Thermostable Electron Acceptors for Efficient Organic Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 183-190.	2.0	22
54	Unraveling the Impact of Halide Mixing on Crystallization and Phase Evolution in CsPbX <sub>3</sub> Perovskite Solar Cells. <i>Matter</i> , 2021, 4, 313-327.	5.0	49

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55	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
56	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
57	Synergy strategy to the flexible alkyl and chloride side-chain engineered quinoxaline-based A conjugated polymers for efficient non-fullerene polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1906-1916.	3.2	11
58	Effects of Ĩ-Bridge on Fused-Ring Electron Acceptor Dimers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 23-29.	2.0	9
59	Perovskite Light-Emitting Diodes: High-Performance Blue Perovskite Light-Emitting Diodes Enabled by Efficient Energy Transfer between Coupled Quasi-2D Perovskite Layers (Adv. Mater. 1/2021). <i>Advanced Materials</i> , 2021, 33, 2170006.	11.1	5
60	Achieving 16.68% efficiency ternary as-cast organic solar cells. <i>Science China Chemistry</i> , 2021, 64, 581-589.	4.2	99
61	Positional isomeric effect of monobrominated ending groups within small molecule acceptors on photovoltaic performance. <i>RSC Advances</i> , 2021, 11, 31992-31999.	1.7	0
62	Unveiling the crystalline packing of Y6 in thin films by thermally induced Ćbackbone-onĆ orientation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17030-17038.	5.2	22
63	Structural regulation of thiophene-fused benzotriazole as a Ćĭ-bridgeĆ for A-ĭ-D-ĭ-A type acceptor:P3HT-based OSCs to achieve high efficiency. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6520-6528.	5.2	21
64	Ternary organic solar cells with 16.88% efficiency enabled by a twisted perylene diimide derivative to enhance the open-circuit voltage. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3826-3834.	2.7	24
65	Modifying Surface Termination of CsPb<sub>3</sub> Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , 2021, 31, 2009515.	7.8	62
66	Perfusion microvessel density in the cerebral cortex of septic rats is negatively correlated with endothelial microparticles in circulating plasma. <i>Metabolic Brain Disease</i> , 2021, 36, 1029-1036.	1.4	1
67	Layer-by-Layer Processed Ternary Organic Photovoltaics with Efficiency over 18%. <i>Advanced Materials</i> , 2021, 33, e2007231.	11.1	438
68	Trifluoromethylphenylacetic Acid as In Situ Accelerant of Ostwald Ripening for Stable and Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100040.	3.1	11
69	An Electron Acceptor Analogue for Lowering Trap Density in Organic Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008134.	11.1	91
70	A Spider-Silk-Inspired Wet Adhesive with Supercold Tolerance. <i>Advanced Materials</i> , 2021, 33, e2007301.	11.1	59
71	Efficient and bright warm-white electroluminescence from lead-free metal halides. <i>Nature Communications</i> , 2021, 12, 1421.	5.8	99
72	Regio-Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for All-Polymer Solar Cells with 15.2% Efficiency. <i>Angewandte Chemie</i> , 2021, 133, 10225-10234.	1.6	13

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73	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
74	A Wetting-Enabled Transfer (WET) Strategy for Precise Surface Patterning of Organohydrogels. <i>Advanced Materials</i> , 2021, 33, e2008557.	11.1	36
75	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
76	High-Performance Noncovalently Fused Ring Electron Acceptors for Organic Solar Cells Enabled by Noncovalent Intramolecular Interactions and End-Group Engineering. <i>Angewandte Chemie</i> , 2021, 133, 12583-12589.	1.6	31
77	Double-Side Crystallization Tuning to Achieve over 1 $\mu$ m Thick and Well-Aligned Block-Like Narrow-Bandgap Perovskites for High-Efficiency Near-Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2010532.	7.8	16
78	Design of All-Small-Molecule Organic Solar Cells Approaching 14% Efficiency via Isometric Terminal Alkyl Chain Engineering. <i>Energies</i> , 2021, 14, 2505.	1.6	14
79	Side-Chain Engineering on $\pi$ -Series Acceptors with Chlorinated End Groups Enables High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003777.	10.2	82
80	High-performance and eco-friendly semitransparent organic solar cells for greenhouse applications. <i>Joule</i> , 2021, 5, 945-957.	11.7	171
81	Control over Light Soaking Effect in All-Inorganic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2101287.	7.8	25
82	Bottom-Up Quasi-Epitaxial Growth of Hybrid Perovskite from Solution Process—Achieving High-Efficiency Solar Cells via Template-Guided Crystallization. <i>Advanced Materials</i> , 2021, 33, e2100009.	11.1	44
83	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
84	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie</i> , 2021, 133, 13074-13080.	1.6	18
85	Molecular insights of exceptionally photostable electron acceptors for organic photovoltaics. <i>Nature Communications</i> , 2021, 12, 3049.	5.8	97
86	Precise Synthesis of Fused Decacyclic Electron Acceptor Isomers for Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100163.	3.1	8
87	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12964-12970.	7.2	172
88	Nickel-Catcher-Doped Zwitterionic Hydrogel Coating on Nickel-Titanium Alloy Toward Capture and Detection of Nickel Ions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 698745.	2.0	3
89	Correlating the Molecular Structure of A <sub>2</sub> DA <sup>2</sup> DA Type Non-Fullerene Acceptors to Its Heat Transfer and Charge Transport Properties in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2101627.	7.8	25
90	High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor. <i>Science China Chemistry</i> , 2021, 64, 1380-1388.	4.2	51

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91	Excess Ion-Induced Efficiency Roll-Off in High-Efficiency Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 28546-28554.	4.0	27
92	Synergistic Effects of Chlorination and Branched Alkyl Side Chain on the Photovoltaic Properties of Simple Non-Fullerene Acceptors with Quinoxaline as the Core. ChemSusChem, 2021, 14, 3599-3606.	3.6	33
93	Multifunctional Crosslinking-Enabled Strain-Regulating Crystallization for Stable, Efficient $\text{FAPbI}_3$ -Based Perovskite Solar Cells. Advanced Materials, 2021, 33, e2008487.	11.1	106
94	Pattern-Potential-Guided Growth of Textured Macromolecular Films on Graphene/High-Index Copper. Advanced Materials, 2021, 33, e2006836.	11.1	6
95	Asymmetric Isomer Effects in Benzo[ <i>c</i> ][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. Advanced Functional Materials, 2021, 31, 2104369.	7.8	46
96	Non-fullerene acceptors with nitrogen-containing six-membered heterocycle cores for the applications in organic solar cells. Solar Energy Materials and Solar Cells, 2021, 225, 111046.	3.0	23
97	Achieving over 17% efficiency of ternary all-polymer solar cells with two well-compatible polymer acceptors. Joule, 2021, 5, 1548-1565.	11.7	281
98	Compatibility between Solubility and Enhanced Crystallinity of Benzotriazole-Based Small Molecular Acceptors with Less Bulky Alkyl Chains for Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 36053-36061.	4.0	23
99	Triplet exciton formation for non-radiative voltage loss in high-efficiency nonfullerene organic solar cells. Joule, 2021, 5, 1832-1844.	11.7	98
100	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. Nature Photonics, 2021, 15, 681-689.	15.6	255
101	Boosting Highly Efficient Hydrocarbon Solvent-Processed All-Polymer-Based Organic Solar Cells by Modulating Thin-Film Morphology. ACS Applied Materials & Interfaces, 2021, 13, 34301-34307.	4.0	20
102	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. Nature Communications, 2021, 12, 4627.	5.8	98
103	Asymmetric Glycolated Substitution for Enhanced Permittivity and Ecocompatibility of High-Performance Photovoltaic Electron Acceptor. JACS Au, 2021, 1, 1733-1742.	3.6	47
104	N-Type Quinoidal Polymers Based on Dipyrrolopyrazinedione for Application in All-Polymer Solar Cells. Chemistry - A European Journal, 2021, 27, 13527-13533.	1.7	8
105	Graded bulk-heterojunction enables 17% binary organic solar cells via nonhalogenated open air coating. Nature Communications, 2021, 12, 4815.	5.8	135
106	Unveiling the additive-assisted oriented growth of perovskite crystallite for high performance light-emitting diodes. Nature Communications, 2021, 12, 5081.	5.8	178
107	High Capacity and Fast Kinetics of Potassium-Ion Batteries Boosted by Nitrogen-Doped Mesoporous Carbon Spheres. Nano-Micro Letters, 2021, 13, 174.	14.4	77
108	Effects of Side Chains in Third Components on the Performance of Fused-Ring Electron-Acceptor-Based Ternary Organic Solar Cells. Energy & Fuels, 2021, 35, 19055-19060.	2.5	9

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109	A Benzobis(thiazole)-Based Wide Bandgap Polymer Donor Enables over 15% Efficiency Organic Photovoltaics with a Flat Energetic Offset. <i>Macromolecules</i> , 2021, 54, 7862-7869.	2.2	17
110	Suppressed Phase Segregation in High-Humidity-Processed Dion-Jacobson Perovskite Solar Cells Toward High Efficiency and Stability. <i>Solar Rrl</i> , 2021, 5, 2100555.	3.1	6
111	Recent Progress of Spider-Silk-Inspired Adhesive Materials. , 2021, 3, 1453-1467.		15
112	The <i>Legionella</i> Effector SdjA Is a Bifunctional Enzyme That Distinctly Regulates Phosphoribosyl Ubiquitination. <i>MBio</i> , 2021, 12, e0231621.	1.8	25
113	Highly crystalline acceptor materials based on benzodithiophene with different amount of fluorine substitution on alkoxyphenyl conjugated side chains for organic photovoltaics. <i>Materials Reports Energy</i> , 2021, 1, 100059.	1.7	2
114	Pyrrolo[3,2-b]pyrrole-based fused-ring electron acceptors with strong near-infrared absorption beyond 1000Ånm. <i>Dyes and Pigments</i> , 2021, 195, 109705.	2.0	4
115	Doping and orientation regulation of p-type Cu:CdS1~Se /Pt thin film photocathodes for enhanced photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2021, 566, 150723.	3.1	2
116	18.02% Efficiency ternary organic solar cells with a small-molecular donor third component. <i>Chemical Engineering Journal</i> , 2021, 424, 130397.	6.6	46
117	Improvement in power conversion efficiency of all-polymer solar cells enabled by ultrafast channels for charge dynamics. <i>Materials Today Nano</i> , 2021, 16, 100133.	2.3	2
118	Medium band-gap non-fullerene acceptors based on a benzothiophene donor moiety enabling high-performance indoor organic photovoltaics. <i>Energy and Environmental Science</i> , 2021, 14, 4555-4563.	15.6	43
119	Boosting charge and thermal transport ~ role of insulators in stable and efficient n-type polymer transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12281-12290.	2.7	5
120	Achieving 17.38% efficiency of ternary organic solar cells enabled by a large-bandgap donor with noncovalent conformational locking. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11734-11740.	5.2	38
121	High-Efficiency All-Polymer Solar Cells with Poly-Small-Molecule Acceptors Having ~Extended Units with Broad Near-IR Absorption. <i>ACS Energy Letters</i> , 2021, 6, 728-738.	8.8	74
122	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaics~A Real~Time Phase~Transition Study. <i>Advanced Materials</i> , 2021, 33, e2006238.	11.1	30
123	Regulating Favorable Morphology Evolution by a Simple Liquid-Crystalline Small Molecule Enables Organic Solar Cells with over 17% Efficiency and a Remarkable $J_{sc}$ of 26.56 mA/cm <sup>2</sup> . <i>Chemistry of Materials</i> , 2021, 33, 430-440.	3.2	49
124	Isomeric Effect in Unidirectionally Extended Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , 2021, 33, 441-451.	3.2	6
125	Conformation Locking of Simple Nonfused Electron Acceptors Via Multiple Intramolecular Noncovalent Bonds to Improve the Performances of Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 819-827.	2.5	40
126	Introducing Electron-Withdrawing Linking Units and Thiophene ~Bridges into Polymerized Small Molecule Acceptors for High-Efficiency All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2021, 33, 8212-8222.	3.2	17



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127	Carbon Hollow Tube-Confined Sb/Sb <sub>2</sub> S <sub>3</sub> Nanorod Fragments as Highly Stable Anodes for Potassium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51066-51077.	4.0	44
128	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
129	In-Depth Mechanism Understanding for Potassium-Ion Batteries by Electroanalytical Methods and Advanced In Situ Characterization Techniques. <i>Small Methods</i> , 2021, 5, e2101130.	4.6	18
130	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. <i>Nature Communications</i> , 2021, 12, 6226.	5.8	23
131	Revealing the role of solvent additives in morphology and energy loss in benzodifuran polymer-based non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26105-26112.	5.2	24
132	Confronting the Air Instability of Cesium Tin Halide Perovskites by Metal Ion Incorporation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10996-11004.	2.1	8
133	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 &amp; Interfaces</i> , 2021, 13, 54237-54245.	4.0	13
134	Room-temperature multiple ligands-tailored SnO <sub>2</sub> quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high VOC. <i>Light: Science and Applications</i> , 2021, 10, 239.	7.7	40
135	A Nonfullerene Acceptor with Alkylthio- and Dimethoxy-Thiophene-Groups Yielding High-Performance Ternary Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900353.	3.1	26
136	ITC <sub>2</sub> Cl: A Versatile Middle-Bandgap Nonfullerene Acceptor for High-Efficiency Panchromatic Ternary Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900377.	3.1	29
137	Improving the performance of near infrared binary polymer solar cells by adding a second non-fullerene intermediate band-gap acceptor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 909-915.	2.7	47
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142	Understanding Charge Transport in All-Inorganic Halide Perovskite Nanocrystal Thin-Film Field Effect Transistors. <i>ACS Energy Letters</i> , 2020, 5, 2614-2623.	8.8	39
143	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
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162	Highly Selective Olefin Production from CO <sub>2</sub> Hydrogenation on Iron Catalysts: A Subtle Synergy between Manganese and Sodium Additives. <i>Angewandte Chemie</i> , 2020, 132, 21920-21928.	1.6	23

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257	Overcoming the energy loss in asymmetrical non-fullerene acceptor-based polymer solar cells by halogenation of polymer donors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15404-15410.	5.2	39
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261	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
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