

# Xinhui Lu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

396  
papers

20,386  
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417  
ext. papers

26,471  
ext. citations

12.6  
avg, IF

7.36  
L-index

#	Paper	IF	Citations
396	Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. <i>Joule</i> , <b>2019</b> , 3, 1140-1151	27.8	2595
395	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> , <b>2016</b> , 138, 2973-6	16.4	784
394	Fused Nonacyclic Electron Acceptors for Efficient Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1336-1343	16.4	729
393	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> , <b>2020</b> , 13, 635-645	35.4	462
392	Fused Hexacyclic Nonfullerene Acceptor with Strong Near-Infrared Absorption for Semitransparent Organic Solar Cells with 9.77% Efficiency. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701308	24	325
391	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> , <b>2016</b> , 9, 604-610	35.4	316
390	Effect of Isomerization on High-Performance Nonfullerene Electron Acceptors. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9140-9147	16.4	296
389	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> , <b>2019</b> , 12, 3328-3337	35.4	273
388	Enhancing the Performance of Polymer Solar Cells via Core Engineering of NIR-Absorbing Electron Acceptors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706571	24	255
387	Layer-by-Layer Processed Ternary Organic Photovoltaics with Efficiency over 18. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007231	24	243
386	Orientation Regulation of Phenylethylammonium Cation Based 2D Perovskite Solar Cell with Efficiency Higher Than 11%. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702498	21.8	240
385	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. <i>Joule</i> , <b>2020</b> , 4, 1236-1247	27.8	237
384	Highly Tunable Selectivity for Syngas-Derived Alkenes over Zinc and Sodium-Modulated Fe <sub>5</sub> C <sub>2</sub> Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9902-7	16.4	228
383	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> , <b>2017</b> , 29, 1605216	24	216
382	Simple non-fused electron acceptors for efficient and stable organic solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 2152	17.4	214
381	Fused Benzothiadiazole: A Building Block for n-Type Organic Acceptor to Achieve High-Performance Organic Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807577	24	214
380	Improving open-circuit voltage by a chlorinated polymer donor endows binary organic solar cells efficiencies over 17%. <i>Science China Chemistry</i> , <b>2020</b> , 63, 325-330	7.9	213

379	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> , <b>2019</b> , 12, 2529-2536	35.4	188
378	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> , <b>2019</b> , 7, 20713-20722	13	186
377	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 20134-20142	16.4	185
376	Hidden Structure Ordering Along Backbone of Fused-Ring Electron Acceptors Enhanced by Ternary Bulk Heterojunction. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802888	24	177
375	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 395-403	13	173
374	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> , <b>2018</b> , 140, 8934-8943	16.4	171
373	Asymmetric Electron Acceptors for High-Efficiency and Low-Energy-Loss Organic Photovoltaics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001160	24	162
372	Anionic defect engineering of transition metal oxides for oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5875-5897	13	147
371	Reducing Hysteresis and Enhancing Performance of Perovskite Solar Cells Using Low-Temperature Processed Y-Doped SnO Nanosheets as Electron Selective Layers. <i>Small</i> , <b>2017</b> , 13, 1601769	11	144
370	Precisely Controlling the Position of Bromine on the End Group Enables Well-Regular Polymer Acceptors for All-Polymer Solar Cells with Efficiencies over 15. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005942	24	144
369	Modulation of Defects and Interfaces through Alkylammonium Interlayer for Efficient Inverted Perovskite Solar Cells. <i>Joule</i> , <b>2020</b> , 4, 1248-1262	27.8	143
368	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2711-2720	20.1	137
367	Selenium Heterocyclic Electron Acceptor with Small Urbach Energy for As-Cast High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18741-18745	16.4	130
366	Bioinspired Janus Textile with Conical Micropores for Human Body Moisture and Thermal Management. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904113	24	127
365	Understanding Morphology Compatibility for High-Performance Ternary Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6186-6195	9.6	125
364	Fullerene derivative anchored SnO <sub>2</sub> for high-performance perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3463-3471	35.4	123
363	Thiazole Imide-Based All-Acceptor Homopolymer: Achieving High-Performance Unipolar Electron Transport in Organic Thin-Film Transistors. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705745	24	121
362	Three novel silver complexes with ligand-unsupported argentophilic interactions and their luminescent properties. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 3679-85	5.1	119

361	Achieving over 17% efficiency of ternary all-polymer solar cells with two well-compatible polymer acceptors. <i>Joule</i> , <b>2021</b> , 5, 1548-1565	27.8	118
360	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000456	15.6	117
359	Concurrent improvement in JSC and VOC 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> , <b>2020</b> , 13, 2115-2123	35.4	115
358	Molecular Lock: A Versatile Key to Enhance Efficiency and Stability of Organic Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 5822-9	24	114
357	16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. <i>Joule</i> , <b>2021</b> , 5, 914-930	27.8	110
356	Nanoimprint-induced molecular orientation in semiconducting polymer nanostructures. <i>ACS Nano</i> , <b>2011</b> , 5, 7532-8	16.7	107
355	Near-Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803769	24	102
354	Revisiting the origin of cycling enhanced capacity of Fe <sub>3</sub> O <sub>4</sub> based nanostructured electrode for lithium ion batteries. <i>Nano Energy</i> , <b>2017</b> , 41, 426-433	17.1	100
353	Multifunctional CarbonSilica Nanocapsules with Gold Core for Synergistic Photothermal and Chemo-Cancer Therapy under the Guidance of Bimodal Imaging. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4252-4261	15.6	100
352	Efficient Organic Solar Cells with Extremely High Open-Circuit Voltages and Low Voltage Losses by Suppressing Nonradiative Recombination Losses. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801699	21.8	97
351	Bilayer order in a polycarbazole-conjugated polymer. <i>Nature Communications</i> , <b>2012</b> , 3, 795	17.4	95
350	Improving the Activity for Oxygen Evolution Reaction by Tailoring Oxygen Defects in Double Perovskite Oxides. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901783	15.6	90
349	Low-temperature solution-processed NiO <sub>x</sub> films for air-stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11071-11077	13	88
348	Functionalized self-assembling peptide nanofiber hydrogels mimic stem cell niche to control human adipose stem cell behavior in vitro. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6798-805	10.8	88
347	Highly Efficient Sn/Pb Binary Perovskite Solar Cell via Precursor Engineering: A Two-Step Fabrication Process. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807024	15.6	88
346	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> , <b>2016</b> , 4, 14983-14987	13	87
345	A Near-Infrared Photoactive Morphology Modifier Leads to Significant Current Improvement and Energy Loss Mitigation for Ternary Organic Solar Cells. <i>Advanced Science</i> , <b>2018</b> , 5, 1800755	13.6	85
344	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> , <b>2019</b> , 58, 9409-9413	16.4	84

343	Manipulating the Mixed-Perovskite Crystallization Pathway Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901284	24	84
342	Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1371-1379	20.1	83
341	High-Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and See-Through Functions. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001621	24	82
340	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. <i>Joule</i> , <b>2018</b> , 2, 2706-2721	27.8	82
339	Fused-Ring Electron Acceptor ITIC-Th: A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703399	21.8	80
338	Revealing the effects of molecular packing on the performances of polymer solar cells based on ADIDA type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12132-12141	13	80
337	Composition-Tuned Wide Bandgap Perovskites: From Grain Engineering to Stability and Performance Improvement. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803130	15.6	78
336	Photo-Cross-Linkable Azide-Functionalized Polythiophene for Thermally Stable Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , <b>2012</b> , 45, 2338-2347	5.5	78
335	Dual-Accepting-Unit Design of Donor Material for All-Small-Molecule Organic Solar Cells with Efficiency Approaching 11%. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8661-8668	9.6	78
334	Effect of Core Size on Performance of Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5390-5396	9.6	77
333	Tailoring vertical phase distribution of quasi-two-dimensional perovskite films via surface modification of hole-transporting layer. <i>Nature Communications</i> , <b>2019</b> , 10, 878	17.4	76
332	8.78% Efficient All-Polymer Solar Cells Enabled by Polymer Acceptors Based on a B<sub>c</sub>-N Embedded Electron-Deficient Unit. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904585	24	74
331	High-Performance Blue Perovskite Light-Emitting Diodes Enabled by Efficient Energy Transfer between Coupled Quasi-2D Perovskite Layers. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005570	24	74
330	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> , <b>2017</b> , 5, 9649-9654	13	72
329	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. <i>Nature Photonics</i> , <b>2021</b> , 15, 681-689	33.9	72
328	Reductive Transformation of Layered-Double-Hydroxide Nanosheets to Fe-Based Heterostructures for Efficient Visible-Light Photocatalytic Hydrogenation of CO. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803127	24	70
327	Creating polymer hydrogel microfibrils with internal alignment via electrical and mechanical stretching. <i>Biomaterials</i> , <b>2014</b> , 35, 3243-51	15.6	69
326	In vivo studies on angiogenic activity of two designer self-assembling peptide scaffold hydrogels in the chicken embryo chorioallantoic membrane. <i>Nanoscale</i> , <b>2012</b> , 4, 2720-7	7.7	69

325	Alkoxy-Induced Near-Infrared Sensitive Electron Acceptor for High-Performance Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4150-4156	9.6	66
324	Panchromatic Ternary Photovoltaic Cells Using a Nonfullerene Acceptor Synthesized Using CFI Functionalization. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 309-313	9.6	65
323	Zwitterionic-Surfactant-Assisted Room-Temperature Coating of Efficient Perovskite Solar Cells. <i>Joule</i> , <b>2020</b> , 4, 2404-2425	27.8	65
322	High efficiency ternary organic solar cell with morphology-compatible polymers. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11739-11745	13	64
321	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> , <b>2019</b> , 6, 2094-2102	14.4	64
320	Two halogeno(cyano)cuprates with long-lived and strong luminescence. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 4282-6	5.1	64
319	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 534-541	20.1	63
318	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> , <b>2021</b> , 60, 12475-12481	16.4	63
317	Achieving 16.68% efficiency ternary as-cast organic solar cells. <i>Science China Chemistry</i> , <b>2021</b> , 64, 581-589	9.9	63
316	Effects of Alkyl Chain Length on Crystal Growth and Oxidation Process of Two-Dimensional Tin Halide Perovskites. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1422-1429	20.1	62
315	All-Perovskite Emission Architecture for White Light-Emitting Diodes. <i>ACS Nano</i> , <b>2018</b> , 12, 10486-10492	16.7	61
314	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> , <b>2019</b> , 9, 1901740	21.8	60
313	Room-Temperature Meniscus Coating of >20% Perovskite Solar Cells: A Film Formation Mechanism Investigation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900092	15.6	59
312	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> , <b>2020</b> , 10, 2002649	21.8	59
311	Imide-Functionalized Thiazole-Based Polymer Semiconductors: Synthesis, Structure-Property Correlations, Charge Carrier Polarity, and Thin-Film Transistor Performance. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7988-8001	9.6	59
310	Crystallinity Preservation and Ion Migration Suppression through Dual Ion Exchange Strategy for Stable Mixed Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700118	21.8	58
309	A Free-Standing High-Output Power Density Thermoelectric Device Based on Structure-Ordered PEDOT:PSS. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700496	6.4	58
308	Morphology of organic photovoltaic non-fullerene acceptors investigated by grazing incidence X-ray scattering techniques. <i>Materials Today Nano</i> , <b>2019</b> , 5, 100030	9.7	58

307	Tuning terminal aromatics of electron acceptors to achieve high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27632-27639	13	57
306	Unveiling the additive-assisted oriented growth of perovskite crystallite for high performance light-emitting diodes. <i>Nature Communications</i> , <b>2021</b> , 12, 5081	17.4	57
305	Isomerization of Perylene Diimide Based Acceptors Enabling High-Performance Nonfullerene Organic Solar Cells with Excellent Fill Factor. <i>Advanced Science</i> , <b>2019</b> , 6, 1802065	13.6	56
304	Precise Control of Perovskite Crystallization Kinetics via Sequential A-Site Doping. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004630	24	56
303	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12964-12970	16.4	56
302	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> , <b>2019</b> , 58, 8520-8525	16.4	55
301	Short-range order and near-field effects on optical scattering and structural coloration. <i>Optics Express</i> , <b>2011</b> , 19, 8208-17	3.3	54
300	Near-Infrared Electron Acceptors with Unfused Architecture for Efficient Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16700-16706	9.5	53
299	How a liquid becomes a glass both on cooling and on heating. <i>Physical Review Letters</i> , <b>2008</b> , 100, 045701	17.4	53
298	Regio-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> , <b>2021</b> , 60, 10137-10146	16.4	53
297	A Dopant-Free Polymeric Hole-Transporting Material Enabled High Fill Factor Over 81% for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902600	21.8	52
296	Vertical Orientated DionJacobson Quasi-2D Perovskite Film with Improved Photovoltaic Performance and Stability. <i>Small Methods</i> , <b>2020</b> , 4, 1900831	12.8	52
295	General Nondestructive Passivation by 4-Fluoroaniline for Perovskite Solar Cells with Improved Performance and Stability. <i>Small</i> , <b>2018</b> , 14, e1803350	11	52
294	High-Performance Fused Ring Electron Acceptor-Perovskite Hybrid. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14938-14944	16.4	51
293	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1025-1033	20.1	50
292	Near-Infrared Nonfullerene Acceptors Based on Benzobis(thiazole) Unit for Efficient Organic Solar Cells with Low Energy Loss. <i>Small Methods</i> , <b>2019</b> , 3, 1900531	12.8	50
291	High-performance and eco-friendly semitransparent organic solar cells for greenhouse applications. <i>Joule</i> , <b>2021</b> , 5, 945-957	27.8	49
290	Enhanced Charge Transfer between Fullerene and Non-Fullerene Acceptors Enables Highly Efficient Ternary Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42444-42452	9.5	49

289	Electron acceptors with varied linkages between perylene diimide and benzotrithiophene for efficient fullerene-free solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9396-9401	13	48
288	Antibacterial Property of a Polyethylene Glycol-Grafted Dental Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17688-17692	9.5	47
287	Non-planar perylenediimide acceptors with different geometrical linker units for efficient non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1713-1723	13	47
286	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy-Band Engineering. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902543	24	46
285	Triplet Acceptors with a D-A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15043-15049	16.4	45
284	Highly Selective Olefin Production from CO Hydrogenation on Iron Catalysts: A Subtle Synergy between Manganese and Sodium Additives. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21736-21744	16.4	45
283	Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. <i>Nano Energy</i> , <b>2019</b> , 63, 103807	17.1	42
282	A Trialkylsilylthienyl Chain-Substituted Small-Molecule Acceptor with Higher LUMO Level and Reduced Band Gap for Over 16% Efficiency Fullerene-Free Ternary Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 8908-8917	9.6	41
281	Intralayer A-Site Compositional Engineering of Ruddlesden-Popper Perovskites for Thermostable and Efficient Solar Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1216-1224	20.1	41
280	Improved photon-to-electron response of ternary blend organic solar cells with a low band gap polymer sensitizer and interfacial modification. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1702-1707	13	41
279	Nanostructured surfaces frustrate polymer semiconductor molecular orientation. <i>ACS Nano</i> , <b>2014</b> , 8, 243-9	16.7	41
278	Guanidinium doping enabled low-temperature fabrication of high-efficiency all-inorganic CsPbI <sub>2</sub> Br perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27640-27647	13	41
277	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> , <b>2020</b> , 8, 909-915	7.1	39
276	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> , <b>2021</b> , 11, 2003171	21.8	39
275	Asymmetric fused-ring electron acceptor with two distinct terminal groups for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8055-8060	13	38
274	Enhancing the performance of non-fullerene organic solar cells via end group engineering of fused-ring electron acceptors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16638-16644	13	38
273	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> , <b>2019</b> , 37, 1005-1014	3.5	38
272	Efficient and bright warm-white electroluminescence from lead-free metal halides. <i>Nature Communications</i> , <b>2021</b> , 12, 1421	17.4	38

271	Enhanced intramolecular charge transfer of unfused electron acceptors for efficient organic solar cells. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 513-519	7.8	37
270	A 16.4% efficiency organic photovoltaic cell enabled using two donor polymers with their side-chains oriented differently by a ternary strategy. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3676-3685	13.3	37
269	Dithieno[3,2-:2',3'-]pyrrol-Fused Asymmetrical Electron Acceptors: A Study into the Effects of Nitrogen-Functionalization on Reducing Nonradiative Recombination Loss and Dipole Moment on Morphology. <i>Advanced Science</i> , <b>2020</b> , 7, 1902657	13.6	37
268	An Electron Acceptor Analogue for Lowering Trap Density in Organic Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008134	24	37
267	Rhodanine flanked indacenodithiophene as non-fullerene acceptor for efficient polymer solar cells. <i>Science China Chemistry</i> , <b>2017</b> , 60, 257-263	7.9	36
266	Significantly improving the performance of polymer solar cells by the isomeric ending-group based small molecular acceptors: Insight into the isomerization. <i>Nano Energy</i> , <b>2019</b> , 66, 104146	17.1	36
265	Achieving Balanced Charge Transport and Favorable Blend Morphology in Non-Fullerene Solar Cells via Acceptor End Group Modification. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1752-1760	9.6	36
264	A Novel Wide-Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910466	15.6	36
263	A Medium Bandgap D <sub>A</sub> Copolymer Based on 4-Alkyl-3,5-difluorophenyl Substituted Quinoxaline Unit for High Performance Solar Cells. <i>Macromolecules</i> , <b>2018</b> , 51, 2838-2846	5.5	36
262	Highly Efficient Guanidinium-Based Quasi 2D Perovskite Solar Cells via a Two-Step Post-Treatment Process. <i>Small Methods</i> , <b>2019</b> , 3, 1900375	12.8	35
261	Grazing-incidence transmission X-ray scattering: surface scattering in the Born approximation. <i>Journal of Applied Crystallography</i> , <b>2013</b> , 46, 165-172	3.8	35
260	Noise reduction in optical coherence tomography images using a deep neural network with perceptually-sensitive loss function. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 817-830	3.5	35
259	High-Efficiency All-Polymer Solar Cells with Poly-Small-Molecule Acceptors Having Extended Units with Broad Near-IR Absorption. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 728-738	20.1	35
258	Multifunctional Crosslinking-Enabled Strain-Regulating Crystallization for Stable, Efficient FAPbI <sub>3</sub> -Based Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008487	24	34
257	Fluorescence switching method for cascade detection of salicylaldehyde and zinc(II) ion using protein protected gold nanoclusters. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 322-8	11.8	33
256	A low-temperature formation path toward highly efficient Se-free Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells fabricated through sputtering and sulfurization. <i>CrystEngComm</i> , <b>2016</b> , 18, 1070-1077	3.3	33
255	Enhancement of intra- and inter-molecular $\pi$ -conjugated effects for a non-fullerene acceptor to achieve high-efficiency organic solar cells with an extended photoresponse range and optimized morphology. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 2006-2012	7.8	33
254	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> , <b>2019</b> , 7, 15404-15410	13	32

253	Additive-Assisted Hot-Casting Free Fabrication of Dion-Jacobson 2D Perovskite Solar Cell with Efficiency Beyond 16%. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000087	7.1	32
252	Interfacial engineering enables high efficiency with a high open-circuit voltage above 1.23 V in 2D perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18010-18017	13	32
251	All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. <i>Aggregate</i> , e58	22.9	31
250	Enhancement of Photovoltaic Performance by Utilizing Readily Accessible Hole Transporting Layer of Vanadium(V) Oxide Hydrate in a Polymer-Fullerene Blend Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11658-66	9.5	31
249	Visualizing Formation of Intermetallic PdZn in a Palladium/Zinc Oxide Catalyst: Interfacial Fertilization by PdH. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4232-4237	16.4	31
248	Understanding of Imine Substitution in Wide-Bandgap Polymer Donor-Induced Efficiency Enhancement in All-Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 8533-8542	9.6	30
247	Conformation-Tuning Effect of Asymmetric Small Molecule Acceptors on Molecular Packing, Interaction, and Photovoltaic Performance. <i>Small</i> , <b>2020</b> , 16, e2001942	11	30
246	Comparison of Linear- and Star-Shaped Fused-Ring Electron Acceptors <b>2019</b> , 1, 367-374		30
245	Enhanced Electron Transport and Heat Transfer Boost Light Stability of Ternary Organic Photovoltaic Cells Incorporating Non-Fullerene Small Molecule and Polymer Acceptors. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900497	6.4	30
244	Conjugated Polymers Based on Difluorobenzoxadiazole toward Practical Application of Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1702033	21.8	30
243	Triplet exciton formation for non-radiative voltage loss in high-efficiency nonfullerene organic solar cells. <i>Joule</i> , <b>2021</b> , 5, 1832-1844	27.8	30
242	Selective production of phase-separable product from a mixture of biomass-derived aqueous oxygenates. <i>Nature Communications</i> , <b>2018</b> , 9, 5183	17.4	30
241	Enhanced Fischer-Tropsch performances of graphene oxide-supported iron catalysts via argon pretreatment. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 1113-1125	5.5	29
240	Two-dimensional inverted planar perovskite solar cells with efficiency over 15% via solvent and interface engineering. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18980-18986	13	29
239	Improving polymer/nanocrystal hybrid solar cell performance via tuning ligand orientation at CdSe quantum dot surface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19154-60	9.5	29
238	Extended Structures and Magnetic Properties of Lanthanide-Copper Complexes with Picolinic Acids as Bridging Ligands. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 1947-1954	2.3	29
237	Achieving high efficiency and well-kept ductility in ternary all-polymer organic photovoltaic blends thanks to two well miscible donors. <i>Matter</i> , <b>2022</b> ,	12.7	29
236	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. <i>Nature Communications</i> , <b>2021</b> , 12, 4627	17.4	29

235	Molecular packing and electronic processes in amorphous-like polymer bulk heterojunction solar cells with fullerene intercalation. <i>Scientific Reports</i> , <b>2014</b> , 4, 5211	4.9	28
234	High-Efficiency Perovskite Quantum Dot Hybrid Nonfullerene Organic Solar Cells with Near-Zero Driving Force. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002066	24	28
233	In-situ Transmission Electron Microscope Techniques for Heterogeneous Catalysis. <i>ChemCatChem</i> , <b>2020</b> , 12, 1853-1872	5.2	28
232	Constructing highly efficient all-inorganic perovskite solar cells with efficiency exceeding 17% by using dopant-free polymeric electron-donor materials. <i>Nano Energy</i> , <b>2020</b> , 75, 104933	17.1	28
231	A compatible polymer acceptor enables efficient and stable organic solar cells as a solid additive. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17706-17712	13	28
230	Ladder-Type Nonacyclic Arene Bis(thieno[3,2-b]thieno)cyclopentafluorene as a Promising Building Block for Non-Fullerene Acceptors. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 1814-1822	4.5	28
229	Graded bulk-heterojunction enables 17% binary organic solar cells via nonhalogenated open air coating. <i>Nature Communications</i> , <b>2021</b> , 12, 4815	17.4	28
228	High-Performance Organic Solar Cells from Non-Halogenated Solvents. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2107827	15.6	27
227	Near infrared electron acceptors with a photoresponse beyond 1000 nm for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18154-18161	13	27
226	Side-Chain Engineering on Y-Series Acceptors with Chlorinated End Groups Enables High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003777	21.8	26
225	An inverted planar solar cell with 13% efficiency and a sensitive visible light detector based on orientation regulated 2D perovskites. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24633-24640	13	26
224	Crystal Engineering of Biphenylene-Containing Acenes for High-Mobility Organic Semiconductors. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 3589-3596	16.4	25
223	Simultaneously increasing open-circuit voltage and short-circuit current to minimize the energy loss in organic solar cells via designing asymmetrical non-fullerene acceptor. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11053-11061	13	25
222	An asymmetric small molecule acceptor for organic solar cells with a short circuit current density over 24 mA cm <sup>-2</sup> . <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15984-15991	13	25
221	Adipose stem cells controlled by surface chemistry. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2013</b> , 7, 112-7	4.4	25
220	High-performance ternary organic solar cells with photoresponses beyond 1000 nm. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24210-24215	13	25
219	Combining Fused-Ring and Unfused-Core Electron Acceptors Enables Efficient Ternary Organic Solar Cells with Enhanced Fill Factor and Broad Compositional Tolerance. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900317	7.1	24
218	Ternary morphology facilitated thick-film organic solar cell. <i>RSC Advances</i> , <b>2015</b> , 5, 88500-88507	3.7	24

217	Band bending near grain boundaries of Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> thin films and its effect on photovoltaic performance. <i>Nano Energy</i> , <b>2018</b> , 51, 37-44	17.1	24
216	Two novel halogeno(cyano)argentates with efficient luminescence. <i>Dalton Transactions</i> , <b>2006</b> , 884-6	4.3	24
215	Regulating Favorable Morphology Evolution by a Simple Liquid-Crystalline Small Molecule Enables Organic Solar Cells with over 17% Efficiency and a Remarkable Jsc of 26.56 mA/cm <sup>2</sup> . <i>Chemistry of Materials</i> , <b>2021</b> , 33, 430-440	9.6	24
214	Simple Near-Infrared Electron Acceptors for Efficient Photovoltaics and Sensitive Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39515-39523	9.5	24
213	A Spider-Silk-Inspired Wet Adhesive with Supercold Tolerance. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007301	24	24
212	Modifying Surface Termination of CsPbI <sub>3</sub> Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009515	15.6	24
211	Molecular insights of exceptionally photostable electron acceptors for organic photovoltaics. <i>Nature Communications</i> , <b>2021</b> , 12, 3049	17.4	23
210	Doping High-Mobility Donor-Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900945	6.4	22
209	Ethyne-Reducing Metal-Organic Frameworks to Control Fabrications of Core/shell Nanoparticles as Catalysts. <i>ACS Catalysis</i> , <b>2018</b> , 8, 7120-7130	13.1	22
208	Molecular Orientation and Performance of Nanoimprinted Polymer-Based Blend Thin Film Solar Cells. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 60-66	9.6	22
207	Two novel halogeno(cyano)argentates built by silver halide clusters: molecular structures and luminescent properties. <i>CrystEngComm</i> , <b>2011</b> , 13, 5724	3.3	22
206	Molecular design of luminescent halogeno-thiocyano-d <sup>10</sup> metal complexes with in situ formation of the thiocyanate ligand. <i>CrystEngComm</i> , <b>2009</b> , 11, 1615	3.3	22
205	A Vinylene-Linker-Based Polymer Acceptor Featuring Co-planar and Rigid Molecular Conformation Enables High-Performance All-Polymer Solar Cells.. <i>Advanced Materials</i> , <b>2022</b> , e2200361	24	22
204	Fused octacyclic electron acceptor isomers for organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21432-21437	13	21
203	Design of wide-bandgap polymers with deeper ionization potential enables efficient ternary non-fullerene polymer solar cells with 13% efficiency. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14153-14162	13	21
202	Medium-Bandgap Small-Molecule Donors Compatible with Both Fullerene and Nonfullerene Acceptors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9587-9594	9.5	21
201	A Systematic Review of Metal Halide Perovskite Crystallization and Film Formation Mechanism Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , <b>2021</b> , e2105290	24	21
200	Nonhalogenated Solvent-Processed All-Polymer Solar Cells over 7.4% Efficiency from Quinoxaline-Based Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41318-41325	9.5	21

199	High Capacity and Fast Kinetics of Potassium-Ion Batteries Boosted by Nitrogen-Doped Mesoporous Carbon Spheres. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 174	19.5	21
198	Charge carrier transport and nanomorphology control for efficient non-fullerene organic solar cells. <i>Materials Today Energy</i> , <b>2019</b> , 12, 398-407	7	20
197	Fine-tuning HOMO energy levels between PM6 and PBDB-T polymer donors via ternary copolymerization. <i>Science China Chemistry</i> , <b>2020</b> , 63, 1256-1261	7.9	20
196	A Nonfullerene Acceptor with Alkylthio- and Dimethoxy-Thiophene-Groups Yielding High-Performance Ternary Organic Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900353	7.1	20
195	ITC-2Cl: A Versatile Middle-Bandgap Nonfullerene Acceptor for High-Efficiency Panchromatic Ternary Organic Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900377	7.1	20
194	Efficient Slantwise Aligned Dion-Jacobson Phase Perovskite Solar Cells Based on Trans-1,4-Cyclohexanediamine. <i>Small</i> , <b>2020</b> , 16, e2003098	11	20
193	Asymmetric Janus adhesive tape prepared by interfacial hydrosilylation for wet/dry amphibious adhesion. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	19
192	Direct conversion of CO and HO into liquid fuels under mild conditions. <i>Nature Communications</i> , <b>2019</b> , 10, 1389	17.4	19
191	Protein-mediated anti-adhesion surface against oral bacteria. <i>Nanoscale</i> , <b>2018</b> , 10, 2711-2714	7.7	19
190	Solvation effect in precursor solution enables over 16% efficiency in thick 2D perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19423-19429	13	19
189	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> ,	13	19
188	A non-fullerene acceptor enables efficient P3HT-based organic solar cells with small voltage loss and thickness insensitivity. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 1277-1281	8.1	19
187	Improved organic solar cell efficiency based on the regulation of an alkyl chain on chlorinated non-fullerene acceptors. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 2428-2434	7.8	18
186	Comparative study of deep learning models for optical coherence tomography angiography. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 1580-1597	3.5	18
185	Unraveling the Impact of Halide Mixing on Crystallization and Phase Evolution in CsPbX <sub>3</sub> Perovskite Solar Cells. <i>Matter</i> , <b>2021</b> , 4, 313-327	12.7	18
184	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18%. <i>Nature Communications</i> , <b>2022</b> , 13, 2598	17.4	18
183	A deep learning based pipeline for optical coherence tomography angiography. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201900008	3.1	17
182	Highly Tunable Selectivity for Syngas-Derived Alkenes over Zinc and Sodium-Modulated Fe <sub>5</sub> C <sub>2</sub> Catalyst. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10056-10061	3.6	17

181	Enhancing the of P3HT-Based OSCs via a Thiophene-Fused Aromatic Heterocycle as a "Bridge" for A-ED-FA-Type Acceptors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26005-26016	9.5	17
180	Constructing D <sub>A</sub> copolymers based on thiophene-fused benzotriazole units containing different alkyl side-chains for non-fullerene polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8179-8186	7.1	17
179	18.02% Efficiency ternary organic solar cells with a small-molecular donor third component. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130397	14.7	17
178	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> , <b>2021</b> , 9, 11734-11740	13	17
177	Realizing 8.6% Efficiency from Non-Halogenated Solvent Processed Additive Free All Polymer Solar Cells with a Quinoxaline Based Polymer. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800340	7.1	16
176	Roles of Acceptor Guests in Tuning the Organic Solar Cell Property Based on an Efficient Binary Material System with a Nearly Zero Hole-Transfer Driving Force. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5182-5191	9.6	16
175	Injectable bone cement based on mineralized collagen. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2010</b> , 94, 72-9	3.5	16
174	High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor. <i>Science China Chemistry</i> , <b>2021</b> , 64, 1380-1388	7.9	16
173	Distinction between PTB7-Th samples prepared from Pd(PPh <sub>3</sub> ) <sub>4</sub> and Pd <sub>2</sub> (dba) <sub>3</sub> /P(o-tol) <sub>3</sub> catalysed stille coupling polymerization and the resultant photovoltaic performance. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 179-188	13	16
172	A-D-A small molecule donors based on pyrene and diketopyrrolopyrrole for organic solar cells. <i>Science China Chemistry</i> , <b>2017</b> , 60, 561-569	7.9	15
171	Reducing VOC loss via structure compatible and high lowest unoccupied molecular orbital nonfullerene acceptors for over 17%-efficiency ternary organic photovoltaics. <i>EcoMat</i> , <b>2020</b> , 2, e12061	9.4	15
170	Green perovskite light-emitting diodes with simultaneous high luminance and quantum efficiency through charge injection engineering. <i>Science Bulletin</i> , <b>2020</b> , 65, 1832-1839	10.6	15
169	Passivating Charged Defects with 1,6-Hexamethylenediamine To Realize Efficient and Stable Tin-Based Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 16289-16299	3.8	15
168	Thioether Bond Modification Enables Boosted Photovoltaic Performance of Nonfullerene Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32218-32224	9.5	15
167	Facile synthesis of high-performance nonfullerene acceptor isomers via a one stone two birds strategy. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20667-20674	13	15
166	Chlorination Strategy-Induced Abnormal Nanomorphology Tuning in High-Efficiency Organic Solar Cells: A Study of Phenyl-Substituted Benzodithiophene-Based Nonfullerene Acceptors. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900262	7.1	15
165	Spinodal decomposition in Pd <sub>41.25</sub> Ni <sub>41.25</sub> P <sub>17.5</sub> bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 385, 40-46	3.9	15
164	Carbon Hollow Tube-Confined Sb/SbS Nanorod Fragments as Highly Stable Anodes for Potassium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 51066-51077	9.5	15

163	Understanding Charge Transport in All-Inorganic Halide Perovskite Nanocrystal Thin-Film Field Effect Transistors. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2614-2623	20.1	15
162	Asymmetric Isomer Effects in Benzo[c][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104369	15.6	15
161	Investigation of chemical vapour deposition MoS field effect transistors on SiO and ZrO substrates. <i>Nanotechnology</i> , <b>2017</b> , 28, 164004	3.4	14
160	Z-Shaped Fused-Chrysene Electron Acceptors for Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33006-33011	9.5	14
159	Single-phase alkylammonium cesium lead iodide quasi-2D perovskites for color-tunable and spectrum-stable red LEDs. <i>Nanoscale</i> , <b>2019</b> , 11, 16907-16918	7.7	14
158	Compromising Charge Generation and Recombination with Asymmetric Molecule for High-Performance Binary Organic Photovoltaics with Over 18% Certified Efficiency. <i>Advanced Functional Materials</i> , 2112511	15.6	14
157	Novel Oligomer Enables Green Solvent Processed 17.5% Ternary Organic Solar Cells: Synergistic Energy Loss Reduction and Morphology Fine-tuning.. <i>Advanced Materials</i> , <b>2022</b> , e2107659	24	14
156	Introducing an identical benzodithiophene donor unit for polymer donors and small-molecule acceptors to unveil the relationship between the molecular structure and photovoltaic performance of non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26351-26357	13	14
155	Broadband plasmon-enhanced polymer solar cells with power conversion efficiency of 9.26% using mixed Au nanoparticles. <i>Optics Communications</i> , <b>2016</b> , 362, 50-58	2	13
154	Boosting the photovoltaic thermal stability of fullerene bulk heterojunction solar cells through charge transfer interactions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23662-23670	13	13
153	High-Performance Nonfullerene Organic Solar Cells with Unusual Inverted Structure. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000115	7.1	13
152	Hydrocarbons-Driven Crystallization of Polymer Semiconductors for Low-Temperature Fabrication of High-Performance Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706372	15.6	13
151	Electrostatic Force-Driven Oxide Heteroepitaxy for Interface Control. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707017	10.17	13
150	Enhancing Efficiency and Stability of Organic Solar Cells by UV Absorbent. <i>Solar Rrl</i> , <b>2017</b> , 1, 1700148	7.1	13
149	Water-vapor-assisted nanoimprinting of PEDOT:PSS thin films. <i>Small</i> , <b>2012</b> , 8, 3443-7	11	13
148	Osteogenesis of mineralized collagen bone graft modified by PLA and calcium sulfate hemihydrate: in vivo study. <i>Journal of Biomaterials Applications</i> , <b>2013</b> , 28, 12-9	2.9	13
147	Temperature-dependent structural arrest of silica colloids in a water/lutidine binary mixture. <i>Soft Matter</i> , <b>2010</b> , 6, 6160	3.6	13
146	A New End Group on Nonfullerene Acceptors Endows Efficient Organic Solar Cells with Low Energy Losses. <i>Advanced Functional Materials</i> , 2108614	15.6	13

145	Simply planarizing nonfused perylene diimide based acceptors toward promising non-fullerene solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8092-8100	7.1	12
144	The role of emissive charge transfer states in two polymer fullerene organic photovoltaic blends: tuning charge photogeneration through the use of processing additives. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12583-12593	13	12
143	Highly oriented MAPbI <sub>3</sub> crystals for efficient hole-conductor-free printable mesoscopic perovskite solar cells. <i>Fundamental Research</i> , <b>2021</b> ,		12
142	Bulk Heterojunction Quasi-Two-Dimensional Perovskite Solar Cell with 1.18 V High Photovoltage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2935-2943	9.5	12
141	Electron Acceptors With a Truxene Core and Perylene Diimide Branches for Organic Solar Cells: The Effect of Ring-Fusion. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 328	5	12
140	Fine-tuning the solid-state ordering and thermoelectric performance of regioregular P3HT analogues by sequential oxygen-substitution of carbon atoms along the alkyl side chains. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 2333-2344	7.1	11
139	Bioinspired Superhydrophobic NiTi Archwires with Resistance to Bacterial Adhesion and Nickel Ion Release. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801569	4.6	11
138	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</i> , <b>2019</b> , 131, 9509-9513	3.6	11
137	Improved Crystallization and Stability of Mixed-Cation Tin Iodide for Lead-Free Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5415-5426	6.1	11
136	Ternary All-Polymer Solar Cells With 8.5% Power Conversion Efficiency and Excellent Thermal Stability. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 302	5	11
135	A medium-bandgap small molecule donor compatible with both fullerene and unfused-ring nonfullerene acceptors for efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13396-13401	7.1	11
134	Structure characteristics of AlN whiskers fabricated by the carbo-thermal reduction method. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 4249-4253	4.3	11
133	High-Performance Noncovalently Fused-Ring Electron Acceptors for Organic Solar Cells Enabled by Noncovalent Intramolecular Interactions and End-Group Engineering. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12583-12589	3.6	11
132	Bottom-Up Quasi-Epitaxial Growth of Hybrid Perovskite from Solution Process-Achieving High-Efficiency Solar Cells via Template -Guided Crystallization. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100009	24	11
131	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaics-A Real-Time Phase-Transition Study. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006238	24	11
130	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition.. <i>Advanced Materials</i> , <b>2022</b> , e2200276	24	11
129	High open-circuit voltage organic solar cells enabled by a difluorobenzoxadiazole-based conjugated polymer donor. <i>Science China Chemistry</i> , <b>2019</b> , 62, 829-836	7.9	10
128	A thiophene-fused benzotriazole unit as a bridge in A-D-A type acceptor to achieve more balanced JSC and VOC for OSCs. <i>Organic Electronics</i> , <b>2020</b> , 82, 105705	3.5	10

127	Thiazolothienyl imide-based wide bandgap copolymers for efficient polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 11142-11151	7.1	10
126	Poly(sodium 4-styrenesulfonate)-modified monolayer graphene for anode applications of organic photovoltaic cells. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 113302	3.4	10
125	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> ,	13	10
124	Room-temperature multiple ligands-tailored SnO quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high V. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 239	16.7	10
123	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> , <b>2021</b> , 4, 819-827	6.1	10
122	Influences of Quinoid Structures on Stability and Photovoltaic Performance of Nonfullerene Acceptors. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000286	7.1	10
121	Oriented Perovskite Crystal towards Efficient Charge Transport in FASnI3 Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000153	7.1	10
120	Ternary Blending Driven Molecular Reorientation of Non-Fullerene Acceptor IDIC with Backbone Order. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10814-10822	6.1	10
119	Size Modulation and Heterovalent Doping Facilitated Hybrid Organic and Perovskite Quantum Dot Bulk Heterojunction Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 11359-11367	6.1	10
118	High-Efficiency Ternary Organic Solar Cells Based on the Synergized Polymeric and Small-Molecule Donors. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000537	7.1	10
117	Design of All-Small-Molecule Organic Solar Cells Approaching 14% Efficiency via Isometric Terminal Alkyl Chain Engineering. <i>Energies</i> , <b>2021</b> , 14, 2505	3.1	10
116	Control over Light Soaking Effect in All-Inorganic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101287	15.6	10
115	Correlating the Molecular Structure of A-DA?D-A Type Non-Fullerene Acceptors to Its Heat Transfer and Charge Transport Properties in Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101627	15.6	10
114	Adjusting Aggregation Modes and Photophysical and Photovoltaic Properties of Diketopyrrolopyrrole-Based Small Molecules by Introducing B<-N Bonds. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 564-572	4.8	10
113	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> , <b>2021</b> , 9, 3826-3834	7.1	10
112	A Ladder-type Heteroheptacene 12H-Dithieno[2',3':4,5]thieno[3,2-b:2',3'-h]fluorene Based D-A Copolymer with Strong Intermolecular Interactions toward Efficient Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 35159-35168	9.5	9
111	Sulfur vs. tellurium: the heteroatom effects on the nonfullerene acceptors. <i>Science China Chemistry</i> , <b>2019</b> , 62, 897-903	7.9	9
110	Sensitivity of Molecular Packing and Photovoltaic Performance to Subtle Fluctuation of Steric Distortions within DA Copolymer Backbones. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 4332-4340	6.1	9

109	Influence of Donor/Acceptor Arrangement on Charge Transport in Conjugated Copolymers. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 5600-5605	3.8	9
108	In Vivo Osteogenesis of Vancomycin Loaded Nanohydroxyapatite/Collagen/Calcium Sulfate Composite for Treating Infectious Bone Defect Induced by Chronic Osteomyelitis. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-8	3.2	9
107	Cascade Type-II 2D/3D Perovskite Heterojunctions for Enhanced Stability and Photovoltaic Efficiency. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000282	7.1	9
106	Excess Ion-Induced Efficiency Roll-Off in High-Efficiency Perovskite Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28546-28554	9.5	9
105	Engineering subcellular-patterned biointerfaces to regulate the surface wetting of multicellular spheroids. <i>Nano Research</i> , <b>2018</b> , 11, 5704-5715	10	9
104	Optimizing side chains on different nitrogen aromatic rings achieving 17% efficiency for organic photovoltaics. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 65, 173-178	12	9
103	Medium band-gap non-fullerene acceptors based on a benzothiophene donor moiety enabling high-performance indoor organic photovoltaics. <i>Energy and Environmental Science</i> ,	35.4	9
102	Pushing the Efficiency of High Open-Circuit Voltage Binary Organic Solar Cells by Vertical Morphology Tuning.. <i>Advanced Science</i> , <b>2022</b> , e2200578	13.6	9
101	High Open Circuit Voltage Over 1V Achieved in Tin-Based Perovskite Solar Cells with a 2D/3D Vertical Heterojunction.. <i>Advanced Science</i> , <b>2022</b> , e2200242	13.6	9
100	Soft Porous Blade Printing of Nonfullerene Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 25843-25852	9.5	8
99	High-Quality MAPbBr Cuboid Film with Promising Optoelectronic Properties Prepared by a Hot Methylamine Precursor Approach. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24498-24504	9.5	8
98	1-Chloronaphthalene-Induced Donor/Acceptor Vertical Distribution and Carrier Dynamics Changes in Nonfullerene Organic Solar Cells and the Governed Mechanism.. <i>Small Methods</i> , <b>2022</b> , e2101475	12.8	8
97	High-Performance All-Small-Molecule Organic Solar Cells Enabled by Regio-Isomerization of Noncovalently Conformational Locks. <i>Advanced Functional Materials</i> , <b>2021</b> , 2112433	15.6	8
96	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. <i>Nature Communications</i> , <b>2021</b> , 12, 6226	17.4	8
95	Construction of three-dimensional nitrogen doped porous carbon flake electrodes for advanced potassium-ion hybrid capacitors. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 1940-1949	9.3	8
94	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> , <b>2020</b> , 132, 21920-21928	3.6	8
93	A Wetting-Enabled-Transfer (WET) Strategy for Precise Surface Patterning of Organohydrogels. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008557	24	8
92	A Pyrrole-Fused Asymmetrical Electron Acceptor for Polymer Solar Cells with Approaching 16% Efficiency. <i>Small Structures</i> , <b>2021</b> , 2, 2000052	8.7	8

91	Structural regulation of thiophene-fused benzotriazole as a bridge for A-D-A type acceptor: P3HT-based OSCs to achieve high efficiency. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6520-6528	13	8
90	Asymmetric Glycolated Substitution for Enhanced Permittivity and Eco-compatibility of High-Performance Photovoltaic Electron Acceptor. <i>Jacs Au</i> , <b>2021</b> , 1, 1733-1742		8
89	The Effector SdjA Is a Bifunctional Enzyme That Distinctly Regulates Phosphoribosyl Ubiquitination. <i>MBio</i> , <b>2021</b> , 12, e0231621	7.8	8
88	15.71% Efficiency All-Small-Molecule Organic Solar Cells Based on Low-Cost Synthesized Donor Molecules. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2110159	15.6	8
87	Pairing 1D/2D-conjugation donors/acceptors towards high-performance organic solar cells. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 276-283	7.8	7
86	An Alkoxy-Solubilizing Decacyclic Electron Acceptor for Efficient Ecofriendly As-Cast Blade-Coated Organic Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000108	7.1	7
85	Effects of linking units on fused-ring electron acceptor dimers. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13735-13741	13	7
84	S?Cl intramolecular interaction: An efficient strategy to improve power conversion efficiency of organic solar cells. <i>Dyes and Pigments</i> , <b>2020</b> , 179, 108416	4.6	7
83	Spectroscopic Study of Charge Transport at Organic Solid/Liquid Water Interface. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5422-5428	9.6	7
82	Simple thiazole-centered oligothiophene donor enables 15.4% efficiency all small molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 3009-3017	13	7
81	Synergistic Effects of Chlorination and Branched Alkyl Side Chain on the Photovoltaic Properties of Simple Non-Fullerene Acceptors with Quinoxaline as the Core. <i>ChemSusChem</i> , <b>2021</b> , 14, 3599-3606	8.3	7
80	Non-fullerene acceptors with nitrogen-containing six-membered heterocycle cores for the applications in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 225, 111046	6.4	7
79	Unveiling the crystalline packing of Y6 in thin films by thermally induced backbone-on orientation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17030-17038	13	7
78	Controlled Synthesis of Copper-Doped Molybdenum Carbide Catalyst with Enhanced Activity and Stability for Hydrogen Evolution Reaction. <i>Catalysis Letters</i> , <b>2019</b> , 149, 1368-1374	2.8	6
77	Effects of alkoxylation position on fused-ring electron acceptors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15128-15134	7.1	6
76	Triplet Acceptors with a D-A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15153-15159	3.6	6
75	Bifunctional Effects of Trichloro(octyl)silane Modification on the Performance and Stability of a Perovskite Solar Cell via Microscopic Characterization Techniques. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3302-3309	6.1	6
74	Fluorinated pyrazine-based D-A conjugated polymers for efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7083-7089	13	6

73	Various fates of neuronal progenitor cells observed on several different chemical functional groups. <i>Frontiers of Materials Science</i> , <b>2011</b> , 5, 358-366	2.5	6
72	X-ray near-field speckle: implementation and critical analysis. <i>Journal of Synchrotron Radiation</i> , <b>2011</b> , 18, 823-34	2.4	6
71	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> , <b>2021</b> , 13, 54237-54243	9.5	6
70	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> ,	9.6	6
69	Enhancing Open-Circuit Voltage of High-Efficiency Nonfullerene Ternary Solar Cells with a Star-Shaped Acceptor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50660-50667	9.5	6
68	Trifluoromethylphenylacetic Acid as In Situ Accelerant of Ostwald Ripening for Stable and Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100040	7.1	6
67	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> , <b>2021</b> , 31, 2010532	15.6	6
66	Compatibility between Solubility and Enhanced Crystallinity of Benzotriazole-Based Small Molecular Acceptors with Less Bulky Alkyl Chains for Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 36053-36061	9.5	6
65	Intrinsically Chemo- and Thermostable Electron Acceptors for Efficient Organic Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 183-190	5.1	6
64	Heteroheptacene-based acceptors with thieno[3,2-b]pyrrole yield high-performance polymer solar cells. <i>National Science Review</i> ,	10.8	6
63	In Situ Probing of the Charge Transport Process at the Polymer/Fullerene Heterojunction Interface. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 25598-25605	3.8	5
62	Resolution-matched reflection mode photoacoustic microscopy and optical coherence tomography dual modality system. <i>Photoacoustics</i> , <b>2020</b> , 19, 100188	9	5
61	In-Depth Mechanism Understanding for Potassium-Ion Batteries by Electroanalytical Methods and Advanced In Situ Characterization Techniques.. <i>Small Methods</i> , <b>2021</b> , 5, e2101130	12.8	5
60	Energy level modulation of donor-acceptor alternating random conjugated copolymers for achieving high-performance polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 15335-15343	7.1	5
59	Influence of Bridging Groups on the Photovoltaic Properties of Wide-Bandgap Poly(BDTP-alt-BDD)s. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1394-1401	9.5	5
58	Synergy strategy to the flexible alkyl and chloride side-chain engineered quinoxaline-based D $\pi$ A conjugated polymers for efficient non-fullerene polymer solar cells. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 1906-1916	7.8	5
57	Sifting Di(thiophen-2-yl)alkanes as solvent additives to boost the photovoltaic performance of the PTB7-Th:PC71BM blend. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20788-20794	13	5
56	Naphthalenediimide-based n-type polymer acceptors with pendant twisted perylenediimide units for all-polymer solar cells. <i>Polymer</i> , <b>2018</b> , 158, 183-189	3.9	5

55	Boosting Highly Efficient Hydrocarbon Solvent-Processed All-Polymer-Based Organic Solar Cells by Modulating Thin-Film Morphology. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34301-34307	9.5	5
54	Recent Progress of Spider-Silk-Inspired Adhesive Materials	1453-1467	5
53	Designing a Perylene Diimide/Fullerene Hybrid as Effective Electron Transporting Material in Inverted Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 8608	3.6	4
52	Visualizing Formation of Intermetallic PdZn in a Palladium/Zinc Oxide Catalyst: Interfacial Fertilization by PdHx. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4276-4281	3.6	4
51	Oxygen Defect Engineering: Improving the Activity for Oxygen Evolution Reaction by Tailoring Oxygen Defects in Double Perovskite Oxides (Adv. Funct. Mater. 34/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970236	15.6	4
50	Effects of Fluorination Position on Fused-Ring Electron Acceptors. <i>Small Structures</i> , <b>2020</b> , 1, 2000006	8.7	4
49	Bis(thieno[3,2-]thieno)cyclopentafluorene-Based Acceptor with Efficient and Comparable Photovoltaic Performance under Various Processing Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 49876-49885	9.5	4
48	Regio-Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for All-Polymer Solar Cells with 15.2 % Efficiency. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 10225-10234	3.6	4
47	Precise Synthesis of Fused Decacyclic Electron Acceptor Isomers for Organic Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100163	7.1	4
46	Effects of Bridge on Fused-Ring Electron Acceptor Dimers. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 23-29	4.3	4
45	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> , <b>2021</b> , 33, 2170006	24	4
44	Symmetrically Fluorinated Benzo[1,2-:4,5-']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> , <b>2022</b> , 14, 14532-14540	9.5	4
43	Enhancing Transition Dipole Moments of Heterocyclic Semiconductors via Rational Nitrogen-Substitution for Sensitive Near Infrared Detection.. <i>Advanced Materials</i> , <b>2022</b> , e2201600	24	4
42	New Route for Fabrication of High-Quality Zn(S,O) Buffer Layer at High Deposition Temperature on Cu(In,Ga)Se <sub>2</sub> Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2017</b> , 7, 651-655	3.7	3
41	Diluted Organic Semiconductors in Photovoltaics. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000261	7.1	3
40	Additive-Assisted Hot-Casting Free Fabrication of DionJacobson 2D Perovskite Solar Cell with Efficiency Beyond 16%. <i>Solar Rrl</i> , <b>2020</b> , 4, 2070074	7.1	3
39	Organic Thin-Film Transistors: Thiazole Imide-Based All-Acceptor Homopolymer: Achieving High-Performance Unipolar Electron Transport in Organic Thin-Film Transistors (Adv. Mater. 10/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870071	24	3
38	Isomeric Effect in Unidirectionally Extended Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 441-451	9.6	3

37	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 13074-13080	3.6	3
36	Cancer Therapy: Multifunctional CarbonSilica Nanocapsules with Gold Core for Synergistic Photothermal and Chemo-Cancer Therapy under the Guidance of Bimodal Imaging (Adv. Funct. Mater. 24/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4424-4424	15.6	3
35	Fused thienobenzene-thienothiophene electron acceptors for organic solar cells. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 37, 58-65	12	3
34	Guided Formation of Large Crystals of Organic and Perovskite Semiconductors by an Ultrasonicated Dispenser and Their Application as the Active Matrix of Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39921-39932	9.5	3
33	N-Type Quinoidal Polymers Based on Dipyrrolopyrazinedione for Application in All-Polymer Solar Cells. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13527-13533	4.8	3
32	A Benzobis(thiazole)-Based Wide Bandgap Polymer Donor Enables over 15% Efficiency Organic Photovoltaics with a Flat Energetic Offset. <i>Macromolecules</i> , <b>2021</b> , 54, 7862-7869	5.5	3
31	A new random D-A copolymer based on two different benzotriazole units as co-acceptors for polymer solar cells. <i>Polymer</i> , <b>2018</b> , 139, 123-129	3.9	2
30	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> , <b>2022</b> , 10, 2017-2025 <sup>2</sup>	7.1	2
29	Understanding the molecular mechanisms of the differences in the efficiency and stability of all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 1850-1861	7.1	2
28	Unidirectionally aligned bright quantum rods films, using T-shape ligands, for LCD application. <i>Nano Research</i> , <sup>1</sup>	10	2
27	Confronting the Air Instability of Cesium Tin Halide Perovskites by Metal Ion Incorporation. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10996-11004	6.4	2
26	Improving the device performance of organic solar cells with immiscible solid additives. <i>Journal of Materials Chemistry C</i> ,	7.1	2
25	Effects of Side Chains in Third Components on the Performance of Fused-Ring Electron-Acceptor-Based Ternary Organic Solar Cells. <i>Energy &amp; Fuels</i> ,	4.1	2
24	Suppressed Phase Segregation in High-Humidity-Processed DionJacobson Perovskite Solar Cells Toward High Efficiency and Stability. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100555	7.1	2
23	Boosting charge and thermal transport role of insulators in stable and efficient n-type polymer transistors. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 12281-12290	7.1	2
22	WET-Induced Layered Organohydrogel as Bioinspired "Sticky-Slippery Skin" for Robust Underwater Oil-Repellency.. <i>Advanced Materials</i> , <b>2022</b> , e2110408	24	2
21	Superhydrophobic Archwires: Bioinspired Superhydrophobic Ni Archwires with Resistance to Bacterial Adhesion and Nickel Ion Release (Adv. Mater. Interfaces 7/2019). <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1970046	4.6	1
20	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> , <b>2022</b> , 10, 1246-1258	7.1	1

19	Effect of Molecular Symmetry on Fused-Ring Electron Acceptors. <i>Solar Rrl</i> , 2100797	7.1	1
18	Copper phosphotungstate as low cost, solution-processed, stable inorganic anode interfacial material enables organic photovoltaics with over 18% efficiency. <i>Nano Energy</i> , <b>2022</b> , 94, 106923	17.1	1
17	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2888-2894	4	1
16	Pattern-Potential-Guided Growth of Textured Macromolecular Films on Graphene/High-Index Copper. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006836	24	1
15	Transforming the molecular orientation of crystalline lamellae by the degree of multi-fluorination within DA copolymers and its effect on photovoltaic performance. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 10513-10523	7.1	1
14	Improvement in power conversion efficiency of all-polymer solar cells enabled by ultrafast channels for charge dynamics. <i>Materials Today Nano</i> , <b>2021</b> , 16, 100133	9.7	1
13	Ternary polymerization strategy to approach 12% efficiency in all-polymer solar cells processed by green solvent and additive. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132407	14.7	1
12	Ester side chains engineered quinoxaline based D-A copolymers for high-efficiency all-polymer solar cells. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132551	14.7	1
11	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> , <b>2022</b> , e2103428	13.6	1
10	Side-chain engineering with chalcogen-containing heterocycles on non-fullerene acceptors for efficient organic solar cells. <i>Chemical Engineering Journal</i> , <b>2022</b> , 441, 135998	14.7	1
9	Nickel-Catcher-Doped Zwitterionic Hydrogel Coating on Nickel-Titanium Alloy Toward Capture and Detection of Nickel Ions. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 698745	5.8	0
8	Perfusion microvessel density in the cerebral cortex of septic rats is negatively correlated with endothelial microparticles in circulating plasma. <i>Metabolic Brain Disease</i> , <b>2021</b> , 36, 1029-1036	3.9	0
7	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> , <b>2021</b> , 1, 100059		0
6	Pyrrolo[3,2-b]pyrrole-based fused-ring electron acceptors with strong near-infrared absorption beyond 1000 nm. <i>Dyes and Pigments</i> , <b>2021</b> , 195, 109705	4.6	0
5	Doping and orientation regulation of p-type Cu:CdS1Be /Pt thin film photocathodes for enhanced photoelectrochemical water splitting. <i>Applied Surface Science</i> , <b>2021</b> , 566, 150723	6.7	0
4	Biosignal-responsive polymer nanorods that specifically recognize hydrogen polysulfide (H <sub>2</sub> S <sub>n</sub> ) from reactive sulfur species. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 2781-2785	4.9	
3	Nanoparticle suspensions studied by x-ray photon correlation spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1027, 1		
2	Röntgenbild: Visualizing Formation of Intermetallic PdZn in a Palladium/Zinc Oxide Catalyst: Interfacial Fertilization by PdH <sub>x</sub> (Angew. Chem. 13/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4458-4458	3.6	

- 1 Positional isomeric effect of monobrominated ending groups within small molecule acceptors on photovoltaic performance.. *RSC Advances*, **2021**, 11, 31992-31999

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