

# Xinhui Lu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3309297/xinhui-lu-publications-by-year.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

396 papers	20,386 citations	69 h-index	129 g-index
417 ext. papers	26,471 ext. citations	12.6 avg, IF	7.36 L-index

#	Paper	IF	Citations
396	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
395	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
394	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
393	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
392	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
391	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
390	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
389	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
388	High-Performance Organic Solar Cells from Non-Halogenated Solvents. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2107827	15.6	27
387	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
386	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
385	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
384	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
383	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
382	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
381	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
380	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

379	WET-Induced Layered Organohydrogel as Bioinspired "Sticky-Slippery Skin" for Robust Underwater Oil-Repellency.. <i>Advanced Materials</i> , <b>2022</b> , e2110408	24	2
378	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
377	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
376	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
375	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
374	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
373	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
372	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
371	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
370	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
369	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
368	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
367	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
366	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
365	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
364	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
363	Isomeric Effect in Unidirectionally Extended Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 441-451	9.6	3
362	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

361	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
360	An Electron Acceptor Analogue for Lowering Trap Density in Organic Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008134	24	37
359	A Spider-Silk-Inspired Wet Adhesive with Supercold Tolerance. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007301	24	24
358	Efficient and bright warm-white electroluminescence from lead-free metal halides. <i>Nature Communications</i> , <b>2021</b> , 12, 1421	17.4	38
357	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
356	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, 10137-10148	16.4	53
355	A Wetting-Enabled-Transfer (WET) Strategy for Precise Surface Patterning of Organohydrogels. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008557	24	8
354	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
353	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
352	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
351	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
350	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
349	High-performance and eco-friendly semitransparent organic solar cells for greenhouse applications. <i>Joule</i> , <b>2021</b> , 5, 945-957	27.8	49
348	Control over Light Soaking Effect in All-Inorganic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101287	15.6	10
347	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
346	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
345	Simple Non-Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 13074-13080	3.6	3
344	Molecular insights of exceptionally photostable electron acceptors for organic photovoltaics. <i>Nature Communications</i> , <b>2021</b> , 12, 3049	17.4	23

343	Precise Synthesis of Fused Decacyclic Electron Acceptor Isomers for Organic Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100163	7.1	4
342	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
341	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
340	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
339	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
338	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
337	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
336	Multifunctional Crosslinking-Enabled Strain-Regulating Crystallization for Stable, Efficient $\text{FAPbI}_3$ -Based Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008487	24	34
335	Pattern-Potential-Guided Growth of Textured Macromolecular Films on Graphene/High-Index Copper. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006836	24	1
334	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
333	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
332	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
331	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
330	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
329	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
328	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
327	Unraveling the Impact of Halide Mixing on Crystallization and Phase Evolution in $\text{CsPbX}_3$ Perovskite Solar Cells. <i>Matter</i> , <b>2021</b> , 4, 313-327	12.7	18
326	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

325	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
324	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
323	Effects of $\pi$ -Bridge on Fused-Ring Electron Acceptor Dimers. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 23-29	4.3	4
322	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
321	Achieving 16.68% efficiency ternary as-cast organic solar cells. <i>Science China Chemistry</i> , <b>2021</b> , 64, 581-589	9.9	63
320	Positional isomeric effect of monobrominated ending groups within small molecule acceptors on photovoltaic performance.. <i>RSC Advances</i> , <b>2021</b> , 11, 31992-31999	3.7	
319	Unveiling the crystalline packing of Y6 in thin films by thermally induced Backbone-on $\pi$ orientation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17030-17038	13	7
318	Structural regulation of thiophene-fused benzotriazole as a $\pi$ -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
317	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
316	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
315	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
314	Layer-by-Layer Processed Ternary Organic Photovoltaics with Efficiency over 18. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007231	24	243
313	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. <i>Nature Photonics</i> , <b>2021</b> , 15, 681-689	33.9	72
312	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
311	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. <i>Nature Communications</i> , <b>2021</b> , 12, 4627	17.4	29
310	Asymmetric Glycolated Substitution for Enhanced Permittivity and Biocompatibility of High-Performance Photovoltaic Electron Acceptor. <i>JACS Au</i> , <b>2021</b> , 1, 1733-1742		8
309	N-Type Quinoidal Polymers Based on Dipyrrrolopyrazinedione for Application in All-Polymer Solar Cells. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13527-13533	4.8	3
308	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



307	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
306	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
305	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
304	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
303	The Effector SdjA Is a Bifunctional Enzyme That Distinctly Regulates Phosphoribosyl Ubiquitination. <i>MBio</i> , <b>2021</b> , 12, e0231621	7.8	8
302	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
301	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
300	Doping and orientation regulation of p-type Cu:CdS18e /Pt thin film photocathodes for enhanced photoelectrochemical water splitting. <i>Applied Surface Science</i> , <b>2021</b> , 566, 150723	6.7	0
299	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
298	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
297	Boosting charge and thermal transport ¶ole 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
296	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
295	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
294	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
293	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
292	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
291	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
290	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

289	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
288	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
287	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
286	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
285	Asymmetric Electron Acceptors for High-Efficiency and Low-Energy-Loss Organic Photovoltaics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001160	24	162
284	High-Performance Nonfullerene Organic Solar Cells with Unusual Inverted Structure. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000115	7.1	13
283	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
282	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
281	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
280	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
279	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
278	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
277	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
276	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
275	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
274	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
273	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
272	Fluorinated pyrazine-based D $\pi$ 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



271	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
270	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
269	Diluted Organic Semiconductors in Photovoltaics. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000261	7.1	3
268	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
267	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
266	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
265	Resolution-matched reflection mode photoacoustic microscopy and optical coherence tomography dual modality system. <i>Photoacoustics</i> , <b>2020</b> , 19, 100188	9	5
264	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
263	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
262	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
261	In-situ Transmission Electron Microscope Techniques for Heterogeneous Catalysis. <i>ChemCatChem</i> , <b>2020</b> , 12, 1853-1872	5.2	28
260	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	37
259	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
258	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
257	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
256	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
255	S $\pi$ 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
254	A thiophene-fused benzotriazole unit as a bridge in A-B-A type acceptor to achieve more balanced JSC and VOC for OSCs. <i>Organic Electronics</i> , <b>2020</b> , 82, 105705	3.5	10

253	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
252	Biosignal-responsive polymer nanorods that specifically recognize hydrogen polysulfide (H <sub>2</sub> Sn) from reactive sulfur species. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 2781-2785	4.9	
251	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
250	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
249	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
248	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
247	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
246	Vertical Orientated Dion-Jacobson Quasi-2D Perovskite Film with Improved Photovoltaic Performance and Stability. <i>Small Methods</i> , <b>2020</b> , 4, 1900831	12.8	52
245	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
244	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
243	Zwitterionic-Surfactant-Assisted Room-Temperature Coating of Efficient Perovskite Solar Cells. <i>Joule</i> , <b>2020</b> , 4, 2404-2425	27.8	65
242	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
241	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
240	Effects of Fluorination Position on Fused-Ring Electron Acceptors. <i>Small Structures</i> , <b>2020</b> , 1, 2000006	8.7	4
239	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
238	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
237	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
236	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

235	Influences of Quinoid Structures on Stability and Photovoltaic Performance of Nonfullerene Acceptors. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000286	7.1	10
234	Oriented Perovskite Crystal towards Efficient Charge Transport in FASnI <sub>3</sub> Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000153	7.1	10
233	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
232	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
231	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
230	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
229	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
228	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
227	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
226	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
225	Precise Control of Perovskite Crystallization Kinetics via Sequential A-Site Doping. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004630	24	56
224	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
223	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
222	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
221	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
220	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
219	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
218	8.78% Efficient All-Polymer Solar Cells Enabled by Polymer Acceptors Based on a B<-N Embedded Electron-Deficient Unit. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904585	24	74

217	Bioinspired Janus Textile with Conical Micropores for Human Body Moisture and Thermal Management. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904113	24	127
216	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
215	Fused octacyclic electron acceptor isomers for organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21432-21437	13	21
214	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
213	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
212	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
211	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
210	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
209	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
208	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
207	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
206	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
205	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
204	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
203	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
202	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
201	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
200	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

199	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
198	A deep learning based pipeline for optical coherence tomography angiography. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201900008	3.1	17
197	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
196	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
195	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
194	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
193	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
192	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
191	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	13.62	21
190	Simple non-fused electron acceptors for efficient and stable organic solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 2152	17.4	214
189	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
188	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
187	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
186	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
185	Manipulating the Mixed-Perovskite Crystallization Pathway Unveiled by In Situ GIWAXS. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901284	24	84
184	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
183	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
182	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



181	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
180	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
179	Superhydrophobic Archwires: Bioinspired Superhydrophobic NiTi 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
178	Direct conversion of CO and HO into liquid fuels under mild conditions. <i>Nature Communications</i> , <b>2019</b> , 10, 1389	17.4	19
177	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
176	Sulfur vs. tellurium: the heteroatom effects on the nonfullerene acceptors. <i>Science China Chemistry</i> , <b>2019</b> , 62, 897-903	7.9	9
175	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
174	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
173	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
172	Comparison of Linear- and Star-Shaped Fused-Ring Electron Acceptors <b>2019</b> , 1, 367-374		30
171	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
170	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
169	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
168	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
167	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
166	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
165	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
164	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



163	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
162	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
161	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
160	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
159	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
158	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
157	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
156	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
155	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
154	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
153	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
152	Röntgenbild: Visualizing Formation of Intermetallic PdZn in a Palladium/Zinc Oxide Catalyst: Interfacial Fertilization by PdHx (Angew. Chem. 13/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4458-4458	3.6	
151	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
150	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
149	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
148	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
147	Guanidinium doping enabled low-temperature fabrication of high-efficiency all-inorganic CsPbI2Br perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27640-27647	13	41
146	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

145	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
144	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
143	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
142	Fused thienobenzene-thienothiophene electron acceptors for organic solar cells. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 37, 58-65	12	3
141	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
140	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
139	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
138	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
137	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
136	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
135	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
134	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
133	A Medium Bandgap D $\pi$ A 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
132	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
131	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
130	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
129	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
128	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

127	Protein-mediated anti-adhesion surface against oral bacteria. <i>Nanoscale</i> , <b>2018</b> , 10, 2711-2714	7.7	19
126	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
125	Panchromatic Ternary Photovoltaic Cells Using a Nonfullerene Acceptor Synthesized Using C <sub>60</sub> Functionalization. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 309-313	9.6	65
124	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
123	Sensitivity of Molecular Packing and Photovoltaic Performance to Subtle Fluctuation of Steric Distortions within D <sub>18</sub> Copolymer Backbones. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 4332-4340	6.1	9
122	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
121	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
120	Electrostatic Force-Driven Oxide Heteroepitaxy for Interface Control. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707407	13	13
119	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
118	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
117	Spectroscopic Study of Charge Transport at Organic Solid-Water Interface. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5422-5428	9.6	7
116	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
115	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
114	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
113	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
112	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
111	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
110	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

109	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
108	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
107	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
106	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
105	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
104	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
103	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
102	Sifting 2,2-bis(4-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
101	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
100	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
99	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
98	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
97	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
96	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
95	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
94	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
93	All-Perovskite Emission Architecture for White Light-Emitting Diodes. <i>ACS Nano</i> , <b>2018</b> , 12, 10486-10492	16.7	61
92	Transforming the molecular orientation of crystalline lamellae by the degree of multi-fluorination within D <sub>18</sub> copolymers and its effect on photovoltaic performance. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 10513-10523	7.1	1

91	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
90	Revealing the effects of molecular packing on the performances of polymer solar cells based on A-D-A type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12132-12141	13	80
89	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
88	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
87	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
86	Engineering subcellular-patterned biointerfaces to regulate the surface wetting of multicellular spheroids. <i>Nano Research</i> , <b>2018</b> , 11, 5704-5715	10	9
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	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
76	Low-temperature solution-processed NiOx films for air-stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11071-11077	13	88
75	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
74	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



73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	Constructing D-A 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
64	Enhancing Efficiency and Stability of Organic Solar Cells by UV Absorbent. <i>Solar Rrl</i> , <b>2017</b> , 1, 1700148	7.1	13
63	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
62	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
61	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
60	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
59	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
58	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
57	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
56	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



55	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
54	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
53	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
52	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
51	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
50	Understanding Morphology Compatibility for High-Performance Ternary Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6186-6195	9.6	125
49	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
48	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
47	Ternary morphology facilitated thick-film organic solar cell. <i>RSC Advances</i> , <b>2015</b> , 5, 88500-88507	3.7	24
46	In VivoOsteogenesis 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
45	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
44	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
43	Influence of DonorAcceptor Arrangement on Charge Transport in Conjugated Copolymers. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 5600-5605	3.8	9
42	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
41	The role of emissive charge transfer states in two polymerfullerene 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
40	Nanostructured surfaces frustrate polymer semiconductor molecular orientation. <i>ACS Nano</i> , <b>2014</b> , 8, 243-9	16.7	41
39	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
38	Creating polymer hydrogel microfibrils with internal alignment via electrical and mechanical stretching. <i>Biomaterials</i> , <b>2014</b> , 35, 3243-51	15.6	69

37	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
36	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
35	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
34	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
33	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
32	Water-vapor-assisted nanoimprinting of PEDOT:PSS thin films. <i>Small</i> , <b>2012</b> , 8, 3443-7	11	13
31	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
30	Bilayer order in a polycarbazole-conjugated polymer. <i>Nature Communications</i> , <b>2012</b> , 3, 795	17.4	95
29	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
28	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
27	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
26	X-ray near-field speckle: implementation and critical analysis. <i>Journal of Synchrotron Radiation</i> , <b>2011</b> , 18, 823-34	2.4	6
25	Nanoimprint-induced molecular orientation in semiconducting polymer nanostructures. <i>ACS Nano</i> , <b>2011</b> , 5, 7532-8	16.7	107
24	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
23	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
22	Molecular design of luminescent halogeno-thiocyanato-d10 metal complexes with in situ formation of the thiocyanate ligand. <i>CrystEngComm</i> , <b>2009</b> , 11, 1615	3.3	22
21	How a liquid becomes a glass both on cooling and on heating. <i>Physical Review Letters</i> , <b>2008</b> , 100, 045701	7.4	53
20	Nanoparticle suspensions studied by x-ray photon correlation spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1027, 1		

19	Two novel halogeno(cyano)argentates with efficient luminescence. <i>Dalton Transactions</i> , <b>2006</b> , 884-6	4.3	24
18	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
17	Two halogeno(cyano)cuprates with long-lived and strong luminescence. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 4282-6	5.1	64
16	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
15	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
14	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
13	Unidirectionally aligned bright quantum rods films, using T-shape ligands, for LCD application. <i>Nano Research</i> , 1	10	2
12	High-Performance All-Small-Molecule Organic Solar Cells Enabled by Regio-Isomerization of Noncovalently Conformational Locks. <i>Advanced Functional Materials</i> , 2112433	15.6	8
11	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
10	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
9	Effect of Molecular Symmetry on Fused-Ring Electron Acceptors. <i>Solar Rrl</i> , 2100797	7.1	1
8	Improving the device performance of organic solar cells with immiscible solid additives. <i>Journal of Materials Chemistry C</i> ,	7.1	2
7	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
6	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
5	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
4	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
3	Recent Progress of Spider-Silk-Inspired Adhesive Materials 1453-1467		5
2	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

- 1 Heteroheptacene-based acceptors with thieno[3,2-b]pyrrole yield high-performance polymer solar cells. *National Science Review*, 10.8 6