

# CITATION REPORT

List of articles citing

**Side-Chain Isomerization on an n-type Organic Semiconductor ITIC Acceptor Makes 11.77% High Efficiency Polymer Solar Cells**

**DOI: 10.1021/jacs.6b09110**

**Journal of the American Chemical Society, 2016, 138, 15011-15**

**Source:** <https://exaly.com/paper-pdf/64730971/citation-report.pdf>

**Version:** 2024-04-26

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#	Paper	IF	Citations
797	Effect of Molecular Shape on the Properties of Non-Fullerene Acceptors: Contrasting Calamitic Versus 3D Design Principles.		
796	Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets.		
795	High-Performance Polymer Solar Cells with Minimal Energy Loss Enabled by a Main-Chain-Twisted Nonfullerene Acceptor.		
794	Three-dimensional $\pi$ -conjugated compounds as non-fullerene acceptors in organic photovoltaics: the influence of acceptor unit orientation at phase interfaces on photocurrent generation efficiency. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3932-3938	13	19
793	Novel triphenylamine-based copolymers for all-polymer solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 140, 141-149	16.6	9
792	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
791	Recent progress in non-fullerene small molecule acceptors in organic solar cells (OSCs). <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 1275-1302	7.1	333
790	Surprising Effects upon Inserting Benzene Units into a Quaterthiophene-Based D-A Polymer: Improving Non-Fullerene Organic Solar Cells via Donor Polymer Design. <b>2017</b> , 7, 1602304		50
789	High-Performance Ternary Organic Solar Cell Enabled by a Thick Active Layer Containing a Liquid Crystalline Small Molecule Donor. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 2387-2395	16.4	351
788	An extended $\pi$ -conjugated area of electron-donating units in D $\pi$ A structured polymers towards high-mobility field-effect transistors and highly efficient polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2786-2793	7.1	29
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786	Non-fullerene organic solar cells based on diketopyrrolopyrrole polymers as electron donors and ITIC as an electron acceptor. <b>2017</b> , 19, 8069-8075		24
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783	Effect of furan $\pi$ -bridge on the photovoltaic performance of D-A copolymers based on bi(alkylthio-thienyl)benzodithiophene and fluorobenzotriazole. <i>Science China Chemistry</i> , <b>2017</b> , 60, 537-544	7.9	22
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781	A novel A-D-A small molecule with 1,8-naphthalimide as a potential non-fullerene acceptor for solution processable solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 142, 39-50	4.6	10

780	Asymmetric medium bandgap copolymers and narrow bandgap small-molecule acceptor with over 7% efficiency. <i>Organic Electronics</i> , <b>2017</b> , 45, 42-48	3.5	13
779	Halogenated conjugated molecules for ambipolar field-effect transistors and non-fullerene organic solar cells. <b>2017</b> , 1, 1389-1395		149
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777	Thermally stable high performance non-fullerene polymer solar cells with low energy loss by using ladder-type small molecule acceptors. <i>Organic Electronics</i> , <b>2017</b> , 44, 217-224	3.5	40
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768	Non-fullerene small molecular acceptors based on dithienocyclopentafluorene and dithienocyclopentacarbazole cores for polymer solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 144, 48-57	4.6	24
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663	Photovoltage as a quantitative probe of carrier generation and recombination in organic photovoltaic cells. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 11885-11891	7.1	9
662	Wide bandgap small molecular acceptors for low energy loss organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 12591-12596	7.1	32
661	Bis(naphthothiophene diimide)indacenodithiophenes as Acceptors for Organic Photovoltaics. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9618-9622	9.6	26
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659	Toward Over 15% Power Conversion Efficiency for Organic Solar Cells: Current Status and Perspectives. <b>2017</b> , 1, 1700258		114
658	Phthalimide-Based Wide Bandgap Donor Polymers for Efficient Non-Fullerene Solar Cells. <i>Macromolecules</i> , <b>2017</b> , 50, 8928-8937	5.5	26
657	Vinylene- and ethynylene-bridged perylene diimide dimers as nonfullerene acceptors for polymer solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 146, 143-150	4.6	11
656	Synthesis and photovoltaic properties of new ruthenium(II)-bis(aryleneethynylene) complexes. <b>2017</b> , 846, 277-286		6
655	High-performance wide-bandgap copolymers based on indacenodithiophene and indacenodithieno[3,2-b]thiophene units. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7777-7783	7.1	18

654	3D Structural Model of High-Performance Non-Fullerene Polymer Solar Cells as Revealed by High-Resolution AFM. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24451-24455	9.5	1
653	Push-Pull Type Non-Fullerene Acceptors for Polymer Solar Cells: Effect of the Donor Core. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24771-24777	9.5	39
652	Isomeric small molecule acceptors based on perylene diimide and spirobifluorene for non-fullerene organic solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 146, 151-158	4.6	14
651	Highly Efficient Inverted D:A:A Ternary Blend Organic Photovoltaics Combining a Ladder-type Non-Fullerene Acceptor and a Fullerene Acceptor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24797-24803 <sup>36</sup>	9.5	36
650	Influence of Weak Base Addition to Hole-Collecting Buffer Layers in Polymer:Fullerene Solar Cells. <b>2017</b> , 22,		1
649	Enhanced Efficiency of PTB7 : PC61BM Organic Solar Cells by Adding a Low Efficient Polymer Donor. <b>2017</b> , 2017, 1-8		5
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647	5-nm LiF as an Efficient Cathode Buffer Layer in Polymer Solar Cells Through Simply Introducing a C Interlayer. <b>2017</b> , 12, 543		9
646	Nonhalogen Solvent-Processed Asymmetric Wide-Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706517	15.6	57
645	Organic polymeric and small molecular electron acceptors for organic solar cells. <b>2018</b> , 124, 1-57		55
644	A low cost and high performance polymer donor material for polymer solar cells. <i>Nature Communications</i> , <b>2018</b> , 9, 743	17.4	459
643	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
642	8.0% Efficient all-polymer solar cells based on novel starburst polymer acceptors. <i>Science China Chemistry</i> , <b>2018</b> , 61, 576-583	7.9	23
641	Next-generation organic photovoltaics based on non-fullerene acceptors. <b>2018</b> , 12, 131-142		1155
640	Low Energy Loss of 0.57 eV and High Efficiency of 8.80% in Porphyrin-Based BHJ Solar Cells. <b>2018</b> , 1, 1304-1315		13
639	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
638	A nonfullerene acceptor utilizing a novel asymmetric multifused-ring core unit for highly efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 4873-4877	7.1	60
637	Chlorination of Side Chains: A Strategy for Achieving a High Open Circuit Voltage Over 1.0 V in Benzo[1,2-b:4,5-b']dithiophene-Based Non-Fullerene Solar Cells. <b>2018</b> , 1, 2365-2372		46

636	Stacking induced high current density and improved efficiency in ternary organic solar cells. <b>2018</b> , 10, 9971-9980		11
635	High-efficiency organic solar cells based on a small-molecule donor and a low-bandgap polymer acceptor with strong absorption. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9613-9622	13	21
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631	Chlorine substituted 2D-conjugated polymer for high-performance polymer solar cells with 13.1% efficiency via toluene processing. <b>2018</b> , 48, 413-420		212
630	Silaindacenodithiophene-Based Fused-Ring Non-Fullerene Electron Acceptor for Efficient Polymer Solar Cells. <b>2018</b> , 36, 495-501		17
629	Fine-tuning the side-chains of non-fullerene small molecule acceptors to match with appropriate polymer donors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8586-8594	13	33
628	Significant enhancement of the photovoltaic performance of organic small molecule acceptors via side-chain engineering. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7988-7996	13	36
627	A narrow-bandgap donor polymer for highly efficient as-cast non-fullerene polymer solar cells with a high open circuit voltage. <i>Organic Electronics</i> , <b>2018</b> , 58, 82-87	3.5	16
626	Insight into correlation between molecular length and exciton dissociation, charge transport and recombination in Polymer: Oligomer based solar cells. <i>Organic Electronics</i> , <b>2018</b> , 58, 75-81	3.5	2
625	Synthesis and photovoltaic properties of a simple non-fused small molecule acceptor. <i>Organic Electronics</i> , <b>2018</b> , 58, 133-138	3.5	19
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622	Preparation of sub-square-meter-sized organic semiconductor films for photovoltaics applications. <b>2018</b> , 46, 11-19		3
621	Side-chain modification of polyethylene glycol on conjugated polymers for ternary blend all-polymer solar cells with efficiency up to 9.27%. <i>Science China Chemistry</i> , <b>2018</b> , 61, 427-436	7.9	36
620	Non-fullerene acceptors for organic solar cells. <b>2018</b> , 3,		1634
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618	A perylene-dimide dimer containing an asymmetric $\beta$ -bridge and its fused derivative for fullerene-free organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2580-2587	7.1	26
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616	Small Molecule Interlayers in Organic Solar Cells. <b>2018</b> , 8, 1702730		45
615	From Molecular Packing Structures to Electronic Processes: Theoretical Simulations for Organic Solar Cells. <b>2018</b> , 8, 1702743		73
614	Glass Forming Acceptor Alloys for Highly Efficient and Thermally Stable Ternary Organic Solar Cells. <b>2018</b> , 8, 1702741		69
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612	Molecular Consideration for Small Molecular Acceptors Based on Ladder-Type Dipyrans: Influences of O-Functionalization and $\beta$ -Bridges. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705927	15.6	45
611	Terthieno[3,2-b]thiophene (6T) Based Low Bandgap Fused-Ring Electron Acceptor for Highly Efficient Solar Cells with a High Short-Circuit Current Density and Low Open-Circuit Voltage Loss. <b>2018</b> , 8, 1702831		82
610	A polymer design strategy toward green solvent processed efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4324-4330	13	38
609	Enhanced power conversion efficiency in iridium complex-based terpolymers for polymer solar cells. <b>2018</b> , 2,		56
608	Fused pentacyclic electron acceptors with four cis-arranged alkyl side chains for efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3724-3729	13	25
607	Tetraphenylphosphonium Bromide as a Cathode Buffer Layer Material for Highly Efficient Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5569-5576	9.5	18
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605	Cross-conjugated n-type polymer acceptors for efficient all-polymer solar cells. <b>2018</b> , 54, 2204-2207		13
604	Multiple Cases of Efficient Nonfullerene Ternary Organic Solar Cells Enabled by an Effective Morphology Control Method. <b>2018</b> , 8, 1701370		116
603	Synergistic effects of chlorination and a fully two-dimensional side-chain design on molecular energy level modulation toward non-fullerene photovoltaics. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2942-2951	13	33
602	High efficiency small molecular acceptors based on novel O-functionalized ladder-type dipyrans building block. <b>2018</b> , 45, 10-20		39
601	An Unfused-Core-Based Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705208	24	272

600	Enhancing the performance of the electron acceptor ITIC-Th via tailoring its end groups. <b>2018</b> , 2, 537-543		36
599	High-Performance Organic Bulk-Heterojunction Solar Cells Based on Multiple-Donor or Multiple-Acceptor Components. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705706	24	124
598	Fused Tris(thienothiophene)-Based Electron Acceptor with Strong Near-Infrared Absorption for High-Performance As-Cast Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705969	24	305
597	Fine-Tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54. <i>Advanced Materials</i> , <b>2018</b> , 30, 1706124	24	232
596	Improve the Performance of the All-Small-Molecule Nonfullerene Organic Solar Cells through Enhancing the Crystallinity of Acceptors. <b>2018</b> , 8, 1702377		75
595	Indaceno-Based Conjugated Polymers for Polymer Solar Cells. <b>2018</b> , 39, e1700697		20
594	An Alkylated Indacenodithieno[3,2-b]thiophene-Based Nonfullerene Acceptor with High Crystallinity Exhibiting Single Junction Solar Cell Efficiencies Greater than 13% with Low Voltage Losses. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705209	24	399
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589	The crucial role of intermolecular $\pi$ -interactions in AD <sub>n</sub> A-type electron acceptors and their effective modulation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2664-2670	13	25
588	Synergistic Modifications of Side Chains and End Groups in Small Molecular Acceptors for High Efficient Non-Fullerene Organic Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800053	7.1	18
587	A wide-bandgap polymer based on alkylthio-naphthyl- substituted benzo[1,2-b:4,5-b']dithiophene units for efficient fullerene-based and fullerene-free polymer solar cells. <b>2018</b> , 145, 108-116		4
586	High-performing random terpolymer-based nonfullerene polymer solar cells fabricated using solvent additive-free as-cast blend films. <b>2018</b> , 56, 1528-1535		8
585	Effect of $\pi$ -bridge units on properties of A-ED- $\pi$ A-type nonfullerene acceptors for organic solar cells. <b>2018</b> , 20, 14200-14210		11
584	Realization of Large-Scale Polymer Solar Cells Using Ultrasonic Spray Technique Via Solvent Engineering. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800064	7.1	12
583	A High-Efficiency Organic Solar Cell Enabled by the Strong Intramolecular Electron Push-Pull Effect of the Nonfullerene Acceptor. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707170	24	295

582	Mesogenic complementary absorbing dyads based on porphyrin and perylene units. <b>2018</b> , 22, 221-232		
581	Substituents on the end group subtle tuning the energy levels and absorptions of small-molecule nonfullerene acceptors. <i>Dyes and Pigments</i> , <b>2018</b> , 155, 241-248	4.6	17
580	Nonfullerene Acceptor Molecules for Bulk Heterojunction Organic Solar Cells. <b>2018</b> , 118, 3447-3507		1051
579	A universal nonfullerene electron acceptor matching with different band-gap polymer donors for high-performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6874-6881	13	26
578	Improved performance of non-fullerene polymer solar cells using wide-bandgap random terpolymers. <i>Organic Electronics</i> , <b>2018</b> , 57, 317-322	3.5	10
577	Isomeric organic semiconductors containing fused-thiophene cores: molecular packing and charge transport. <b>2018</b> , 20, 13171-13177		7
576	Nonfullerene Tandem Organic Solar Cells with High Performance of 14.11. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707508	24	156
575	A Comparative Investigation of Cyclohexyl-End-Capped Versus Hexyl-End-Capped Small-Molecule Donors on Small Donor/Polymer Acceptor Junction Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800009	7.1	8
574	A 2-(trifluoromethyl)thieno[3,4-b]thiophene-based small-molecule electron acceptor for polymer solar cell application. <i>Dyes and Pigments</i> , <b>2018</b> , 155, 179-185	4.6	7
573	Stable High-Performance Perovskite Solar Cells via Grain Boundary Passivation. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706576	24	505
572	Morphology Control in Organic Solar Cells. <b>2018</b> , 8, 1703147		272
571	A trifluoromethyl substituted wide bandgap conjugated polymer for non-fullerene polymer solar cells with 10.4% efficiency. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6551-6558	13	18
570	Synthesis of a selenium and germanium containing random copolymer as an acceptor for all-polymer solar cells. <b>2018</b> , 58, 387-394		0
569	A star-shaped photovoltaic organic molecule based on 1,3-diethyl-2-thiobarbituric acid reaches a power conversion efficiency of 3.07%. <b>2018</b> , 645, 129-133		3
568	Influence of Donor Polymer on the Molecular Ordering of Small Molecular Acceptors in Nonfullerene Polymer Solar Cells. <b>2018</b> , 8, 1701674		46
567	A new small molecule acceptor based on indaceno[2,1-b:6,5-b']dithiophene and thiophene-fused ending group for fullerene-free organic solar cells. <i>Dyes and Pigments</i> , <b>2018</b> , 148, 263-269	4.6	16
566	The effect of alkylthio side chains in oligothiophene-based donor materials for organic solar cells. <b>2018</b> , 3, 131-141		9
565	Bay-annulated indigo based near-infrared sensitive polymer for organic solar cells. <b>2018</b> , 56, 213-220		6

564	Naphthodithiophene-Based Nonfullerene Acceptor for High-Performance Organic Photovoltaics: Effect of Extended Conjugation. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704713	24	183
563	Achieving high short-circuit current and fill-factor via increasing quinoidal character on nonfullerene small molecule acceptor. <b>2018</b> , 29, 381-384		27
562	Enhancing the performance of a fused-ring electron acceptor via extending benzene to naphthalene. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 66-71	7.1	34
561	Breaking 10% Efficiency in Semitransparent Solar Cells with Fused-Undecacyclic Electron Acceptor. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 239-245	9.6	144
560	Synergistic Effects of Selenophene and Extended Ladder-Type Donor Units for Efficient Polymer Solar Cells. <b>2018</b> , 39, 1700483		6
559	Photovoltaic molecules based on vinylene-bridged oligothiophene applied for bulk-heterojunction organic solar cells. <b>2018</b> , 27, 426-431		
558	The design of highly efficient polymer solar cells with outstanding short-circuit current density based on small band gap electron acceptor. <i>Dyes and Pigments</i> , <b>2018</b> , 150, 363-369	4.6	14
557	Energy levels modulation of small molecule acceptors for polymer solar cells. <b>2018</b> , 235, 131-135		9
556	Absorptive Behaviors and Photovoltaic Performance Enhancements of Alkoxy-Phenyl Modified Indacenodithieno[3,2-b]thiophene-Based Nonfullerene Acceptors. <b>2018</b> , 6, 2177-2187		24
555	Writable and patternable organic solar cells and modules inspired by an old Chinese calligraphy tradition. <b>2018</b> , 5, 123-130		34
554	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
553	Improved photocurrent and efficiency of non-fullerene organic solar cells despite higher charge recombination. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 957-962	13	13
552	Fine-Tuning the Energy Levels of a Nonfullerene Small-Molecule Acceptor to Achieve a High Short-Circuit Current and a Power Conversion Efficiency over 12% in Organic Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704904	24	190
551	Effect of Alkylsilyl Side-Chain Structure on Photovoltaic Properties of Conjugated Polymer Donors. <b>2018</b> , 8, 1702324		85
550	Fully Coated Semitransparent Organic Solar Cells with a Doctor-Blade-Coated Composite Anode Buffer Layer of Phosphomolybdic Acid and PEDOT:PSS and a Spray-Coated Silver Nanowire Top Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 943-954	9.5	61
549	Simultaneously Achieved High Open-Circuit Voltage and Efficient Charge Generation by Fine-Tuning Charge-Transfer Driving Force in Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704507	15.6	147
548	Efficient Large Area Organic Solar Cells Processed by Blade-Coating With Single-Component Green Solvent. <i>Solar Rrl</i> , <b>2018</b> , 2, 1700169	7.1	68
547	Feasible D1AD2A Random Copolymers for Simultaneous High-Performance Fullerene and Nonfullerene Solar Cells. <b>2018</b> , 8, 1702166		53

546	Recent Advances in Nonfullerene Acceptors for Organic Solar Cells. <b>2018</b> , 39, 1700555		40
545	A large-bandgap small-molecule electron acceptor utilizing a new indacenodibenzothiophene core for organic solar cells. <b>2018</b> , 2, 136-142		15
544	Impact of Nonfullerene Molecular Architecture on Charge Generation, Transport, and Morphology in PTB7-Th-Based Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802702	15.6	37
543	All-inorganic CsPbBr <sub>3</sub> perovskite solar cell with 10.26% efficiency by spectra engineering. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24324-24329	13	133
542	Overcoming the morphological and efficiency limit in all-polymer solar cells by designing conjugated random copolymers containing a naphtho[1,2-c:5,6-c']bis([1,2,5]thiadiazole)] moiety. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23295-23300	13	9
541	Synthesis and photovoltaic properties of a non-fullerene acceptor with F-phenylalkoxy as a side chain. <b>2018</b> , 42, 19279-19284		4
540	Achieving efficient thick active layer and large area ternary polymer solar cells by incorporating a new fused heptacyclic non-fullerene acceptor. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20313-20326	13	30
539	Selenopheno[3,2-b]thiophene-Based Narrow-Bandgap Nonfullerene Acceptor Enabling 13.3% Efficiency for Organic Solar Cells with Thickness-Insensitive Feature. <b>2018</b> , 3, 2967-2976		109
538	Simple-structured small molecule acceptors constructed by a weakly electron-deficient thiazolothiazole core for high-efficiency non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24267-24276	13	55
537	Two TPD-Based Conjugated Polymers: Synthesis and Photovoltaic Applications as Donor Materials. <b>2018</b> , 26, 1193-1199		8
536	Enhanced open circuit voltage of small molecule acceptors containing angular-shaped indacenodithiophene units for P3HT-based organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12347-12354	7.1	12
535	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24814-24822	13	14
534	Chlorinated Wide-Bandgap Donor Polymer Enabling Annealing Free Nonfullerene Solar Cells with the Efficiency of 11.5. <b>2018</b> , 9, 6955-6962		50
533	Introducing Four 1,1-Dicyanomethylene-3-indanone End-Capped Groups as an Alternative Strategy for the Design of Small-Molecular Nonfullerene Acceptors. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 29122-29128	3.8	31
532	End-cap Group Engineering of a Small Molecule Non-Fullerene Acceptor: The Influence of Benzothiophene Dioxide. <b>2018</b> , 1, 7146-7152		9
531	Recent Progress in Fused-Ring Based Nonfullerene Acceptors for Polymer Solar Cells. <b>2018</b> , 6, 404		16
530	Organophosphorus Derivatives as Cathode Interfacial-Layer Materials for Highly Efficient Fullerene-Free Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35896-35903	9.5	12
529	Conjugated polymer donor with alkylthio-thiophene bridge for efficient polymer solar cells. <i>Organic Electronics</i> , <b>2018</b> , 63, 289-295	3.5	4



528	Fused-Ring Nonfullerene Acceptor Forming Interpenetrating J-Architecture for Fullerene-Free Polymer Solar Cells. <b>2018</b> , 8, 1800204		60
527	UV-Cross-linkable Donor-Acceptor Polymers Bearing a Photostable Conjugated Backbone for Efficient and Stable Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35430-35440	8.5	14
526	Effect of Molecular Shape on the Properties of Non-Fullerene Acceptors: Contrasting Calamitic Versus 3D Design Principles. <b>2018</b> , 1, 6513-6523		9
525	Side-chain effect of perylene diimide tetramer-based non-fullerene acceptors for improving the performance of organic solar cells. <b>2018</b> , 2, 2104-2108		8
524	Fluorinated Thieno[2',3':4,5]benzo[1,2-][1,2,3]triazole: New Acceptor Unit To Construct Polymer Donors. <b>2018</b> , 3, 13894-13901		6
523	Star-Shaped and Fused Electron Acceptors based on C <sub>2</sub> -Symmetric Coplanar Trindeno[1, 2-b: 4, 5-b': 7, 8-b'']trithiophene Core for Non-Fullerene Solar Cells. <b>2019</b> , 25, 1055-1063		6
522	Molecular Engineering of Triphenylamine-Based Non-Fullerene Electron-Transport Materials for Efficient Rigid and Flexible Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38970-38975	8.5	25
521	Recent development of efficient A-D-A type fused-ring electron acceptors for organic solar. <i>Solar Energy</i> , <b>2018</b> , 174, 171-188	6.8	39
520	Push-pull architecture eliminates chain length effects on exciton dissociation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 22758-22767	13	4
519	Electronic states and molecular orientation of ITIC film. <b>2018</b> , 27, 088801		5
518	Use of two structurally similar small molecular acceptors enabling ternary organic solar cells with high efficiencies and fill factors. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3275-3282	35.4	227
517	Extension of indacenodithiophene backbone conjugation enables efficient asymmetric A <sup>+</sup> D <sup>+</sup> A type non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18847-18852	13	64
516	Low-Temperature Processable High-Performance D <sup>+</sup> A-Type Random Copolymers for Nonfullerene Polymer Solar Cells and Application to Flexible Devices. <b>2018</b> , 8, 1801601		29
515	Small-Molecule Electron Acceptors for Efficient Non-fullerene Organic Solar Cells. <b>2018</b> , 6, 414		43
514	Atomistic Insight Into Donor/Acceptor Interfaces in High-Efficiency Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800190	7.1	33
513	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. <b>2018</b> , 2, 2006-2012		33
512	An effective strategy for controlling the morphology of high-performance non-fullerene polymer solar cells without post-treatment: employing bare rigid aryl rings as lever arms in new asymmetric benzodithiophene. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18125-18132	13	20
511	Understanding the effects of the energy band alignment at the donor/acceptor interface on the open circuit voltage of organic photovoltaic devices. <b>2018</b> , 711, 113-117		8

510	Alkyl Chain End Group Engineering of Small Molecule Acceptors for Non-Fullerene Organic Solar Cells. <b>2018</b> , 1, 4724-4730		18
509	Over 14% Efficiency in Organic Solar Cells Enabled by Chlorinated Nonfullerene Small-Molecule Acceptors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800613	24	538
508	Key Tradeoffs Limiting the Performance of Organic Photovoltaics. <b>2018</b> , 8, 1703551		44
507	Non-fullerene-based small molecules as efficient n-type electron transporting layers in inverted organic/inorganic halide perovskite solar cells. <b>2018</b> , 65, 406-410		12
506	High-Efficiency All-Small-Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilyl-Thienyl Conjugated Side Chains. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706361	24	130
505	A small molecular electron acceptor based on asymmetric hexacyclic core of thieno[1,2-b]indaceno[5,6-b?]thienothiophene for efficient fullerene-free polymer solar cells. <b>2018</b> , 63, 845-852		22
504	Nonfullerene Polymer Solar Cells Based on a Main-Chain Twisted Low-Bandgap Acceptor with Power Conversion Efficiency of 13.2%. <b>2018</b> , 3, 1499-1507		98
503	High-Efficiency All Polymer Solar Cell with a Low Voltage Loss of 0.56 V. <b>2018</b> , 1, 2350-2357		8
502	Asymmetrical Ladder-Type Donor-Induced Polar Small Molecule Acceptor to Promote Fill Factors Approaching 77% for High-Performance Nonfullerene Polymer Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800052	24	199
501	Ternary Organic Solar Cells With 12.8% Efficiency Using Two Nonfullerene Acceptors With Complementary Absorptions. <b>2018</b> , 8, 1800424		81
500	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
499	D-BA-ED type thiazolo[5,4-d]thiazole-core organic chromophore and graphene modified PEDOT:PSS buffer layer for efficient bulk heterojunction organic solar cells. <i>Solar Energy</i> , <b>2018</b> , 171, 366-373	6.8	14
498	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
497	Progress in Poly (3-Hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. <b>2018</b> , 8, 1801001		72
496	Designing ternary blend all-polymer solar cells with an efficiency of over 10% and a fill factor of 78%. <b>2018</b> , 51, 434-441		50
495	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. <b>2018</b> , 3, 1760-1768		90
494	On the understanding of energetic disorder, charge recombination and voltage losses in all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 7855-7863	7.1	23
493	Short-axis substitution approach on ladder-type benzodithiophene-based electron acceptor toward highly efficient organic solar cells. <i>Science China Chemistry</i> , <b>2018</b> , 61, 1405-1412	7.9	14

492	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. <b>2018</b> , 8, 1801214		40
491	Molecular engineering of ionic type perylenediimide dimer-based electron transport materials for efficient planar perovskite solar cells. <b>2018</b> , 9, 264-270		13
490	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
489	Cyanovinylene-based copolymers synthesized by tin-free Knoevenagel polycondensation for high efficiency polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8020-8027	7.1	7
488	Angular-Shaped 4,9-Dialkyl-naphthodithiophene-Based Octacyclic Ladder-Type Non-Fullerene Acceptors for High Efficiency Ternary-Blend Organic Photovoltaics. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4968-4977	9.6	34
487	Organic Solar Cells. <b>2018</b> , 567-597		3
486	Nonfullerene Polymer Solar Cells Reaching a 9.29% Efficiency Using a BODIPY-Thiophene Backboned Donor Material. <b>2018</b> , 1, 3359-3368		15
485	Sensitivity of Molecular Packing and Photovoltaic Performance to Subtle Fluctuation of Steric Distortions within D <sub>A</sub> Copolymer Backbones. <b>2018</b> , 1, 4332-4340		9
484	A chlorinated low-bandgap small-molecule acceptor for organic solar cells with 14.1% efficiency and low energy loss. <i>Science China Chemistry</i> , <b>2018</b> , 61, 1307-1313	7.9	184
483	Enhance the performance of polymer solar cells via extension of the flanking end groups of fused ring acceptors. <i>Science China Chemistry</i> , <b>2018</b> , 61, 1320-1327	7.9	20
482	Bulk heterojunction polymer solar cell and perovskite solar cell: Concepts, materials, current status, and opto-electronic properties. <i>Solar Energy</i> , <b>2018</b> , 173, 407-424	6.8	40
481	Effect of Side-Chain Engineering of Bithienylbenzodithiophene-alt-fluorobenzotriazole-Based Copolymers on the Thermal Stability and Photovoltaic Performance of Polymer Solar Cells. <i>Macromolecules</i> , <b>2018</b> , 51, 6028-6036	5.5	39
480	Iris-Like Acceptor with Most PDI Units for Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28812-28818	9.5	26
479	Efficient Non-Fullerene Organic Photovoltaic Modules Incorporating As-Cast and Thickness-Insensitive Photoactive Layers. <b>2018</b> , 8, 1801387		39
478	Benzoxadiazole and Benzoselenadiazole as Bridges in Nonfullerene Acceptors for Efficient Polymer Solar Cells. <b>2018</b> , 7, 2285-2293		6
477	Effects of fused-ring regiochemistry on the properties and photovoltaic performance of n-type organic semiconductor acceptors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15933-15941	13	23
476	Efficient Non-fullerene Organic Solar Cells Enabled by Sequential Fluorination of Small-Molecule Electron Acceptors. <b>2018</b> , 6, 303		6
475	Nonfullerene Acceptors with Enhanced Solubility and Ordered Packing for High-Efficiency Polymer Solar Cells. <b>2018</b> , 3, 1832-1839		96

474	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5429-5434	9.6	158
473	Diphenylphenoxy-Thiophene-PDI Dimers as Acceptors for OPV Applications with Open Circuit Voltage Approaching 1 Volt. <b>2018</b> , 8,		5
472	Polymeric Materials for Conversion of Electromagnetic Waves from the Sun to Electric Power. <b>2018</b> , 10,		6
471	Overcoming Space-Charge Effect for Efficient Thick-Film Non-Fullerene Organic Solar Cells. <b>2018</b> , 8, 1801609		48
470	Wide-Bandgap Small Molecular Acceptors Based on a Weak Electron-Withdrawing Moiety for Efficient Polymer Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800120	7.1	24
469	Nonfullerene small-molecule acceptors with perpendicular side-chains for fullerene-free solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15433-15455	13	69
468	Ternary polymer solar cells based-on two polymer donors with similar HOMO levels and an organic acceptor with absorption extending to 850 nm. <i>Organic Electronics</i> , <b>2018</b> , 62, 89-94	3.5	9
467	Asymmetric thieno[2,3-b]thiophene-based electron acceptor featuring a seven fused-ring electron donor unit as core for nonfullerene organic photovoltaics. <i>Organic Electronics</i> , <b>2018</b> , 62, 82-88	3.5	14
466	Nonfullerene Acceptors for Semitransparent Organic Solar Cells. <b>2018</b> , 8, 1800002		123
465	Subtle Side-Chain Engineering of Random Terpolymers for High-Performance Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3294-3300	9.6	50
464	High-Performance Green Solvent Processed Ternary Blended All-Polymer Solar Cells Enabled by Complementary Absorption and Improved Morphology. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800196	7.1	21
463	Pt complex-based terpolymer acceptors linked through ancillary ligand for all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 9903-9913	7.1	14
462	Designing an asymmetrical isomer to promote the LUMO energy level and molecular packing of a non-fullerene acceptor for polymer solar cells with 12.6% efficiency. <b>2018</b> , 9, 8142-8149		56
461	Weakening the Aggregations of Polymer Chains toward Efficient Non-Fullerene Polymer Solar Cells. <b>2018</b> , 39, e1800446		5
460	Recent advances in electron acceptors with ladder-type backbone for organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17256-17287	13	45
459	Beyond Fullerenes: Indacenodithiophene-Based Organic Charge-Transport Layer toward Upscaling of Low-Cost Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22143-22155	9.5	20
458	1D/2A ternary blend active layer enables as-cast polymer solar cells with higher efficiency, better thickness tolerance, and higher thermal stability. <i>Organic Electronics</i> , <b>2018</b> , 61, 359-365	3.5	16
457	Aromatic end-capped acceptor effects on molecular stacking and the photovoltaic performance of solution-processable small molecules. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 22077-22085	13	13

456	Near-Infrared Small Molecule Acceptor Enabled High-Performance Nonfullerene Polymer Solar Cells with Over 13% Efficiency. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803128	15.6	70
455	Highly Extended small molecules with bis(alkylthio)methylene side chains for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 7604-7611	7.1	9
454	Enhancing the Performance of Organic Solar Cells by Hierarchically Supramolecular Self-Assembly of Fused-Ring Electron Acceptors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4307-4312	9.6	95
453	A comparative study of the effects of terminal aromatic moieties in spirobifluorene core-based diketopyrrolopyrrole non-fullerene acceptors. <b>2018</b> , 42, 11854-11861		5
452	Improved Charge Generation via Ultrafast Effective Hole-Transfer in All-Polymer Photovoltaic Blends with Large Highest Occupied Molecular Orbital (HOMO) Energy Offset and Proper Crystal Orientation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801611	15.6	21
451	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
450	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
449	Synthesis and photovoltaic properties of a small molecule acceptor with thienylenevinylene thiophene as bridge. <i>Dyes and Pigments</i> , <b>2019</b> , 160, 227-233	4.6	5
448	Alkyl side-chain and fluorination engineering in the indeno[1,2-b]fluorene-based small-molecule acceptors for efficient non-fullerene organic solar cells. <i>Dyes and Pigments</i> , <b>2019</b> , 160, 432-438	4.6	11
447	High-Performance Polymer Solar Cells Achieved by Introducing Side-Chain Heteroatom on Small-Molecule Electron Acceptor. <b>2019</b> , 40, e1800393		29
446	Polymer Donors for High-Performance Non-Fullerene Organic Solar Cells. <b>2019</b> , 58, 4442-4453		270
445	Comparison of Linear- and Star-Shaped Fused-Ring Electron Acceptors. <b>2019</b> , 1, 367-374		30
444	Modulating Structure Ordering via Side-Chain Engineering of Thieno[3,4]thiophene-Based Electron Acceptors for Efficient Organic Solar Cells with Reduced Energy Losses. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35193-35200	9.5	5
443	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
442	Slot-Die and Roll-to-Roll Processed Single Junction Organic Photovoltaic Cells with the Highest Efficiency. <b>2019</b> , 9, 1901805		44
441	Modulating the molecular packing and distribution enables fullerene-free ternary organic solar cells with high efficiency and long shelf-life. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20139-20150	13	30
440	Benzodithiophene-modified terpolymer acceptors with reduced molecular planarity and crystallinity: improved performance and stability for all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10338-10351	7.1	13
439	The efficient and non-hysteresis inverted non-fullerenes/CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> planar solar cells. <i>Solar Energy</i> , <b>2019</b> , 189, 307-313	6.8	10

438	Recent Progress in All-Polymer Solar Cells Based on Wide-Bandgap p-Type Polymers. <b>2019</b> , 14, 3109-3118		13
437	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
436	Regio-Specific Selenium Substitution in Non-Fullerene Acceptors for Efficient Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6770-6778	9.6	41
435	Molecular Orientation Unified Nonfullerene Acceptor Enabling 14% Efficiency As-Cast Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903269	15.6	45
434	A two-dimensional halogenated thiophene side-chain strategy for balancing Voc and Jsc and improving efficiency of non-fullerene small molecule acceptor-based organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20274-20284	13	27
433	Insights into constitutional isomeric effects on donor-acceptor intermolecular arrangements in non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18468-18479	13	28
432	Realizing Efficient Charge/Energy Transfer and Charge Extraction in Fullerene-Free Organic Photovoltaics via a Versatile Third Component. <b>2019</b> , 19, 5053-5061		34
431	Chain Engineering of Benzodifuran-Based Wide-Bandgap Polymers for Efficient Non-Fullerene Polymer Solar Cells. <b>2019</b> , 40, e1900227		13
430	Enhancing the Photovoltaic Performance of Ladder-Type Dithienocyclopentacarbazole-Based Nonfullerene Acceptors through Fluorination and Side-Chain Engineering. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5953-5963	9.6	35
429	Noncovalently fused-ring electron acceptors with near-infrared absorption for high-performance organic solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 3038	17.4	166
428	Development of s-tetrazine-based polymers for efficient polymer solar cells by controlling appropriate molecular aggregation. <i>Dyes and Pigments</i> , <b>2019</b> , 171, 107717	4.6	8
427	Isomer-free: Precise Positioning of Chlorine-Induced Interpenetrating Charge Transfer for Elevated Solar Conversion. <b>2019</b> , 17, 302-314		57
426	Impact of the Siloxane-Terminated Side Chain on Photovoltaic Performances of the Dithienylbenzodithiophene-Difluorobenzotriazole-Based Wide Band Gap Polymer Donor in Non-Fullerene Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29094-29104	9.5	22
425	Asymmetric ADA-type nonfullerene small molecule acceptors for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19348-19354	13	22
424	Morphology optimization via molecular weight tuning of donor polymer enables all-polymer solar cells with simultaneously improved performance and stability. <b>2019</b> , 64, 103931		55
423	Enhancing thermal stability of nonfullerene organic solar cells via fluoro-side-chain engineering. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9513-9522	7.1	20
422	Forced coplanarity of dithienofluorene-based non-fullerene acceptors to achieve high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17947-17953	13	11
421	High voltage all polymer solar cells with a polymer acceptor based on NDI and benzotriazole. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9031-9037	7.1	5

4 <sup>20</sup>	Ladder-type high gap conjugated polymers based on indacenodithieno[3,2-b]thiophene and bithiazole for organic photovoltaics. <i>Organic Electronics</i> , <b>2019</b> , 74, 211-217	3.5	3
4 <sup>19</sup>	Perylene diimide-based cathode interfacial materials: adjustable molecular structures and conformation, optimized film morphology, and much improved performance of non-fullerene polymer solar cells. <b>2019</b> , 3, 1840-1848		15
4 <sup>18</sup>	Effect of Solvent Additives on the Morphology and Device Performance of Printed Nonfullerene Acceptor Based Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42313-42321	9.5	3 <sup>0</sup>
4 <sup>17</sup>	Thieno[2,3-f]benzofuran based donor-acceptor polymer for fullerene-free solar cells. <i>European Polymer Journal</i> , <b>2019</b> , 120, 109205	5.2	3
4 <sup>16</sup>	5H-Fluoreno [3,2- b:6,7- b]Dithiophene Based Non-fullerene Small Molecular Acceptors for Polymer Solar Cell Application. <b>2019</b> , 34, 1220-1227		1
4 <sup>15</sup>	A wide bandgap conjugated polymer donor based on alkoxy-fluorophenyl substituted benzodithiophene for high performance non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1307-1314	13	17
4 <sup>14</sup>	Enhancing phase separation with a conformation-locked nonfullerene acceptor for over 14.4% efficiency solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13279-13286	7.1	17
4 <sup>13</sup>	Aqueous-Soluble Naphthalene Diimide-Based Polymer Acceptors for Efficient and Air-Stable All-Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 45038-45047	9.5	3 <sup>0</sup>
4 <sup>12</sup>	Enhancing the Performance of a Fused-Ring Electron Acceptor by Unidirectional Extension. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19023-19031	16.4	10 <sup>2</sup>
4 <sup>11</sup>	Tailoring Synthetic Melanin Nanoparticles for Enhanced Photothermal Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42671-42679	9.5	5 <sup>8</sup>
4 <sup>10</sup>	Tail state limited photocurrent collection of thick photoactive layers in organic solar cells. <i>Nature Communications</i> , <b>2019</b> , 10, 5159	17.4	4 <sup>1</sup>
4 <sup>09</sup>	Additive-Free Non-Fullerene Organic Solar Cells. <b>2019</b> , 6, 5547-5562		8
4 <sup>08</sup>	Recent advances in molecular design of functional conjugated polymers for high-performance polymer solar cells. <b>2019</b> , 99, 101175		8 <sup>3</sup>
4 <sup>07</sup>	Efficient non-fullerene polymer solar cells enabled by side-chain conjugated thieno[3,4-c]pyrrole-4,6-dione-based polymer and small molecular acceptors. <b>2019</b> , 145, 104378		3
4 <sup>06</sup>	Building Blocks for High-Efficiency Organic Photovoltaics: Interplay of Molecular, Crystal, and Electronic Properties in Post-Fullerene ITIC Ensembles. <b>2019</b> , 20, 2608-2626		29
4 <sup>05</sup>	Quaternary Solar Cells with 12.5% Efficiency Enabled with Non-Fullerene and Fullerene Acceptor Guests to Improve Open Circuit Voltage and Film Morphology. <b>2019</b> , 40, e1900353		6
4 <sup>04</sup>	Aggregation-Induced Multilength Scaled Morphology Enabling 11.76% Efficiency in All-Polymer Solar Cells Using Printing Fabrication. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902899	24	18 <sup>3</sup>
4 <sup>03</sup>	Fused octacyclic electron acceptor isomers for organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21432-21437	13	2 <sup>1</sup>

402	Impact of end groups on the performance of non-fullerene acceptors for organic solar cell applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22701-22729	13	54
401	Nonacyclic carbazole-based non-fullerene acceptors enable over 12% efficiency with enhanced stability for organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21903-21910	13	21
400	Influence of Acceptor Type and Polymer Molecular Weight on the Mechanical Properties of Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9057-9069	9.6	63
399	Significantly improving the performance of polymer solar cells by the isomeric ending-group based small molecular acceptors: Insight into the isomerization. <b>2019</b> , 66, 104146		36
398	How Does Polymorphism Affect the Interfacial Charge-Transfer States in Organic Photovoltaics?. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25585-25595	3.8	1
397	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
396	Bromination of the Small-Molecule Acceptor with Fixed Position for High-Performance Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 8044-8051	9.6	40
395	A generic green solvent concept boosting the power conversion efficiency of all-polymer solar cells to 11%. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 157-163	35.4	219
394	Double B<-N bridged bipyridine-containing polymer acceptors with enhanced electron mobility for all-polymer solar cells. <b>2019</b> , 3, 70-77		25
393	Synergistic effect of side-chain and backbone engineering in thieno[2,3-f]benzofuran-based conjugated polymers for high performance non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 958-964	13	39
392	Enhancing photovoltaic performance by tuning the domain sizes of a small-molecule acceptor by side-chain-engineered polymer donors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3072-3082	13	46
391	Effects of water vapor and oxygen on non-fullerene small molecule acceptors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 879-886	7.1	17
390	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
389	Enhanced intermolecular interactions to improve twisted polymer photovoltaic performance. <i>Science China Chemistry</i> , <b>2019</b> , 62, 370-377	7.9	24
388	Combination of noncovalent conformational locks and side chain engineering to tune the crystallinity of nonfullerene acceptors for high-performance P3HT based organic solar cells. <b>2019</b> , 3, 64-69		18
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386	A decacyclic indacenodithiophene-based non-fullerene electron acceptor with meta-alkyl-phenyl substitutions for polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4063-4071	13	13
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257	A new chlorinated non-fullerene acceptor based organic photovoltaic cells over 12% efficiency. <b>2020</b> , 27, 3581-3593		5
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222	Side chain engineering investigation of non-fullerene acceptors for photovoltaic device with efficiency over 15%. <i>Science China Chemistry</i> , <b>2020</b> , 63, 1799-1806	7.9	18
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220	Comparing Benzodithiophene Unit with Alkylthionaphthyl and Alkylthiobiphenyl Side-Chains in Constructing High-Performance Nonfullerene Solar Cells. <b>2020</b> , 12,		0
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205	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

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105	Research Advances on Benzotriazole-based Organic Photovoltaic Materials. <b>2021</b> , 79, 820		0
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103	Improvement of Photovoltaic Performance of Polymer Solar Cells by Rational Molecular Optimization of Organic Molecule Acceptors. <b>2018</b> , 8, 1800815		29
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101	Recent Progress and Challenges toward Highly Stable Nonfullerene Acceptor-Based Organic Solar Cells. <b>2021</b> , 11, 2003002		59
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98	Isomeric effect of fluorene-based fused-ring electron acceptors to achieve high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5315-5322	13	23
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