Erjun Zhou

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164 8,109 8.1 6.32 ext. papers ext. citations avg, IF L-index

| # | Paper | IF | Citations |
|-----|---|--------|-----------|
| 157 | All-polymer solar cells from perylene diimide based copolymers: material design and phase separation control. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2799-803 | 16.4 | 379 |
| 156 | Synthesis and Photovoltaic Properties of Diketopyrrolopyrrole-Based DonorAcceptor Copolymers. <i>Chemistry of Materials</i> , 2009 , 21, 4055-4061 | 9.6 | 273 |
| 155 | Design of Diketopyrrolopyrrole (DPP)-Based Small Molecules for Organic-Solar-Cell Applications. <i>Advanced Materials</i> , 2017 , 29, 1600013 | 24 | 223 |
| 154 | Synthesis and Photovoltaic Properties of a Novel Low Band Gap Polymer Based on N-Substituted Dithieno[3,2-b:2?,3?-d]pyrrole. <i>Macromolecules</i> , 2008 , 41, 8302-8305 | 5.5 | 219 |
| 153 | Control of miscibility and aggregation via the material design and coating process for high-performance polymer blend solar cells. <i>Advanced Materials</i> , 2013 , 25, 6991-6 | 24 | 192 |
| 152 | Benzotriazole-Based Acceptor and Donors, Coupled with Chlorination, Achieve a High VOC of 1.24 V and an Efficiency of 10.5% in Fullerene-Free Organic Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 394 | 123947 | , 175 |
| 151 | Diketopyrrolopyrrole-Based Semiconducting Polymer for Photovoltaic Device with Photocurrent Response Wavelengths up to 1.1 fh. <i>Macromolecules</i> , 2010 , 43, 821-826 | 5.5 | 173 |
| 150 | Copolymers of perylene diimide with dithienothiophene and dithienopyrrole as electron-transport materials for all-polymer solar cells and field-effect transistors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5794 | | 158 |
| 149 | Achievement of High Voc of 1.02 V for P3HT-Based Organic Solar Cell Using a Benzotriazole-Containing Non-Fullerene Acceptor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602269 | 21.8 | 157 |
| 148 | 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> , 2018 , 28, 1704507 | 15.6 | 147 |
| 147 | Aromatic-Diimide-Based n-Type Conjugated Polymers for All-Polymer Solar Cell Applications. <i>Advanced Materials</i> , 2019 , 31, e1804699 | 24 | 138 |
| 146 | Synthesis and Photovoltaic Properties of Donor Acceptor Copolymers Based on 5,8-Dithien-2-yl-2,3-diphenylquinoxaline. <i>Chemistry of Materials</i> , 2010 , 22, 4890-4895 | 9.6 | 123 |
| 145 | Efficient all-polymer solar cells based on blend of tris(thienylenevinylene)-substituted polythiophene and poly[perylene diimide-alt-bis(dithienothiophene)]. <i>Applied Physics Letters</i> , 2008 , 93, 073309 | 3.4 | 120 |
| 144 | Recent progress in porphyrin-based materials for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16769-16797 | 13 | 114 |
| 143 | All-Polymer Solar Cell with High Near-Infrared Response Based on a Naphthodithiophene Diimide (NDTI) Copolymer. <i>ACS Macro Letters</i> , 2014 , 3, 872-875 | 6.6 | 105 |
| 142 | Conjugated materials containing dithieno[3,2-b:2?,3?-d]pyrrole and its derivatives for organic and hybrid solar cell applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 64-96 | 13 | 104 |
| 141 | The Introduction of Fluorine and Sulfur Atoms into Benzotriazole-Based p-Type Polymers to Match with a Benzotriazole-Containing n-Type Small Molecule: The Same-Acceptor-Strategy(Lo Realize High Open-Circuit Voltage. <i>Advanced Energy Materials</i> , 2018 , 8, 1801582 | 21.8 | 104 |

| 140 | Introduction of a conjugated side chain as an effective approach to improving donor ceptor photovoltaic polymers. <i>Energy and Environmental Science</i> , 2012 , 5, 9756 | 35.4 | 104 |
|-----|--|---------------------|-----|
| 139 | Synthesis of Thieno[3,4-b]pyrazine-Based and 2,1,3-Benzothiadiazole-Based DonorAcceptor Copolymers and their Application in Photovoltaic Devices. <i>Macromolecules</i> , 2010 , 43, 2873-2879 | 5.5 | 99 |
| 138 | P3HT-Based Photovoltaic Cells with a High Voc of 1.22 V by Using a Benzotriazole-Containing Nonfullerene Acceptor End-Capped with Thiazolidine-2,4-dione. <i>ACS Macro Letters</i> , 2017 , 6, 410-414 | 6.6 | 98 |
| 137 | Band gap and molecular energy level control of perylene diimide-based donor copolymers for all-polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2362 | | 98 |
| 136 | Solution-Processed Organic Solar Cells with High Open-Circuit Voltage of 1.3 V and Low Non-Radiative Voltage Loss of 0.16 V. <i>Advanced Materials</i> , 2020 , 32, e2002122 | 24 | 96 |
| 135 | Synthesis and application of poly(fluorene-alt-naphthalene diimide) as an n-type polymer for all-polymer solar cells. <i>Chemical Communications</i> , 2012 , 48, 5283-5 | 5.8 | 90 |
| 134 | Indolo[3,2-b]carbazole-based alternating donor\(\text{lcceptor copolymers: synthesis, properties and photovoltaic application. } \) Journal of Materials Chemistry, \(\text{2009}, 19, 7730 \) | | 90 |
| 133 | Sub-picosecond charge-transfer at near-zero driving force in polymer:non-fullerene acceptor blends and bilayers. <i>Nature Communications</i> , 2020 , 11, 833 | 17.4 | 80 |
| 132 | Synthesis and Photovoltaic Properties of a Donor Acceptor Double-Cable Polythiophene with High Content of C60 Pendant. <i>Macromolecules</i> , 2007 , 40, 1868-1873 | 5.5 | 80 |
| 131 | A Benzoselenadiazole-Based Low Band Gap Polymer: Synthesis and Photovoltaic Application. <i>Macromolecules</i> , 2013 , 46, 763-768 | 5.5 | 76 |
| 130 | Synthesis, Hole Mobility, and Photovoltaic Properties of Cross-Linked Polythiophenes with Vinylene Terthiophene Vinylene as Conjugated Bridge. <i>Macromolecules</i> , 2007 , 40, 1831-1837 | 5.5 | 76 |
| 129 | Preparation of active layers in polymer solar cells by aerosol jet printing. <i>ACS Applied Materials & Amp; Interfaces</i> , 2011 , 3, 4053-8 | 9.5 | 72 |
| 128 | Comparison among Perylene Diimide (PDI), Naphthalene Diimide (NDI), and Naphthodithiophene Diimide (NDTI) Based n-Type Polymers for All-Polymer Solar Cells Application. <i>Macromolecules</i> , 2017 , 50, 3179-3185 | 5.5 | 70 |
| 127 | Effect of Energy Alignment, Electron Mobility, and Film Morphology of Perylene Diimide Based Polymers as Electron Transport Layer on the Performance of Perovskite Solar Cells. <i>ACS Applied Materials & Discourse & Discourse Materials & Discourse & Disco</i> | 9.5 | 69 |
| 126 | Changing the Ebridge from thiophene to thieno[3,2-b]thiophene for the D-EA type polymer enables high performance fullerene-free organic solar cells. <i>Chemical Communications</i> , 2019 , 55, 6708-6 | 5 7 5180 | 68 |
| 125 | Effect of side-chain end groups on the optical, electrochemical, and photovoltaic properties of side-chain conjugated polythiophenes. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 4916-4922 | 2.5 | 68 |
| 124 | Effect of branched conjugation structure on the optical, electrochemical, hole mobility, and photovoltaic properties of polythiophenes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26062-7 | 3.4 | 66 |
| 123 | Introducing Fluorine and Sulfur Atoms into Quinoxaline-Based p-type Polymers To Gradually Improve the Performance of Fullerene-Free Organic Solar Cells. <i>ACS Macro Letters</i> , 2019 , 8, 743-748 | 6.6 | 65 |

| 122 | Naphthodithiophene Diimide-Based Copolymers: Ambipolar Semiconductors in Field-Effect Transistors and Electron Acceptors with Near-Infrared Response in Polymer Blend Solar Cells. <i>Macromolecules</i> , 2016 , 49, 1752-1760 | 5.5 | 65 |
|-----|--|---------------------|-----|
| 121 | Performance improvement of polymer solar cells by using a solution processible titanium chelate as cathode buffer layer. <i>Applied Physics Letters</i> , 2007 , 91, 023509 | 3.4 | 62 |
| 120 | Molecular Engineering of DA Copolymers Based on 4,8-Bis(4-chlorothiophen-2-yl)benzo[1,2-b:4,5-b?]dithiophene (BDT-T-Cl) for High-Performance Fullerene-Free Organic Solar Cells. <i>Macromolecules</i> , 2019 , 52, 6227-6233 | 5.5 | 61 |
| 119 | Alternating copolymers of electron-rich arylamine and electron-deficient 2,1,3-benzothiadiazole: Synthesis, characterization and photovoltaic properties. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 386 | 5 1: 587 | 161 |
| 118 | Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25088-25101 | 13 | 61 |
| 117 | Fused Perylene Diimide-Based Polymeric Acceptors for Efficient All-Polymer Solar Cells. <i>Macromolecules</i> , 2017 , 50, 7559-7566 | 5.5 | 57 |
| 116 | Anatomy of the energetic driving force for charge generation in organic solar cells. <i>Nature Communications</i> , 2019 , 10, 2520 | 17.4 | 57 |
| 115 | Linking Polythiophene Chains Through Conjugated Bridges: A Way to Improve Charge Transport in Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 793-798 | 4.8 | 54 |
| 114 | Novel perylene diimide-based polymers with electron-deficient segments as the comonomer for efficient all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 414-422 | 13 | 54 |
| 113 | Low band gap polymers for photovoltaic device with photocurrent response wavelengths over 1000nm. <i>Polymer</i> , 2013 , 54, 6501-6509 | 3.9 | 52 |
| 112 | Tuning the intermolecular interaction of A2-A1-D-A1-A2 type non-fullerene acceptors by substituent engineering for organic solar cells with ultrahigh VOC of ~1.2 V. <i>Science China Chemistry</i> , 2020 , 63, 1666-1674 | 7.9 | 52 |
| 111 | Over 14% efficiency nonfullerene all-small-molecule organic solar cells enabled by improving the ordering of molecular donors via side-chain engineering. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7405 | 5- 7 411 | 50 |
| 110 | Quinoxaline-Containing Nonfullerene Small-Molecule Acceptors with a Linear A-A-D-A-A Skeleton for Poly(3-hexylthiophene)-Based Organic Solar Cells. <i>ACS Applied Materials & Discourted Materials & Discourted</i> | 9.5 | 46 |
| 109 | Ferrocene as a highly volatile solid additive in non-fullerene organic solar cells with enhanced photovoltaic performance. <i>Energy and Environmental Science</i> , 2020 , 13, 5117-5125 | 35.4 | 46 |
| 108 | Synthesis and properties of polythiophenes with conjugated side-chains containing carbon double and triple bonds. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 2206-2214 | 2.5 | 44 |
| 107 | Low-Bandgap n-Type Polymer Based on a Fused-DAD-Type Heptacyclic Ring for All-Polymer Solar Cell Application with a Power Conversion Efficiency of 10.7%. <i>ACS Macro Letters</i> , 2020 , 9, 706-712 | 6.6 | 43 |
| 106 | Recent advances in PM6:Y6-based organic solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 3257-3280 | 7.8 | 40 |
| 105 | Non-Fullerene Acceptors With A2 = A1-D-A1 = A2 Skeleton Containing Benzothiadiazole and Thiazolidine-2,4-Dione for High-Performance P3HT-Based Organic Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 170016 | 66 ^{7.1} | 38 |

| 104 | Solution-Processed Organic Field-Effect Transistors Based on Polythiophene Derivatives with Conjugated Bridges as Linking Chains. <i>Chemistry of Materials</i> , 2007 , 19, 3361-3363 | 9.6 | 37 | |
|-----|--|---------------------|-------------|--|
| 103 | A-A-D-A-A Type Non-Fullerene Acceptors with 2-(1,1-Dicyanomethylene)rhodanine as the Terminal Groups for Poly(3-hexylthiophene)-Based Organic Solar Cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2018 , 10, 34427-34434 | 9.5 | 37 | |
| 102 | High-Performance All-Polymer Solar Cells Achieved by Fused Perylenediimide-Based Conjugated Polymer Acceptors. <i>ACS Applied Materials & Achieved by Fused Perylenediimide-Based Conjugated Polymer Acceptors</i> . <i>ACS Applied Materials & Description</i> . <i>Interfaces</i> , 2018 , 10, 15962-15970 | 9.5 | 35 | |
| 101 | Side chain engineering of quinoxaline-based small molecular nonfullerene acceptors for high-performance poly(3-hexylthiophene)-based organic solar cells. <i>Science China Chemistry</i> , 2020 , 63, 254-264 | 7.9 | 35 | |
| 100 | First-principles theoretical designing of planar non-fullerene small molecular acceptors for organic solar cells: manipulation of noncovalent interactions. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 212 | 8 ³ 2139 | 9 33 | |
| 99 | Improved Efficiency in All-Small-Molecule Organic Solar Cells with Ternary Blend of Nonfullerene Acceptor and Chlorinated and Nonchlorinated Donors. <i>ACS Applied Materials & Donors and Chlorinated Bolory and Chlory and Chlorinated Bolory and Chlorinated Bolory and Chlorinated Bolory and Chlory and Chlo</i> | 9.5 | 33 | |
| 98 | Synthesis, hole mobility, and photovoltaic properties of two alternating poly[3-(hex-1-enyl)thiophene-co-thiophene]s. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 629-638 | 2.5 | 32 | |
| 97 | Conjugated Polymers Based on 1,3-Dithien-2-yl-thieno[3,4-c]pyrrole-4,6-dione: Synthesis, Characterization, and Solvent Effects on Photovoltaic Performance. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2608-2614 | 3.8 | 31 | |
| 96 | 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> , 2018 , 122, 29122-29128 | 3.8 | 31 | |
| 95 | A comparison of n-type copolymers based on cyclopentadithiophene and naphthalene diimide/perylene diimides for all-polymer solar cell applications. <i>Polymer Chemistry</i> , 2015 , 6, 7594-7602 | 4.9 | 30 | |
| 94 | Synthesis and Photovoltaic Properties of Donor Acceptor Copolymer Based on Dithienopyrrole and Thienopyrroledione. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 305-310 | 2.6 | 30 | |
| 93 | Benzothiadiazole-based non-fullerene acceptors. <i>Nano Energy</i> , 2021 , 87, 106174 | 17.1 | 30 | |
| 92 | Planar Benzofuran Inside-Fused Perylenediimide Dimers for High V Fullerene-Free Organic Solar Cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2019 , 11, 4203-4210 | 9.5 | 29 | |
| 91 | Effects of Oxygen Atoms Introduced at Different Positions of Non-Fullerene Acceptors in the Performance of Organic Solar Cells with Poly(3-hexylthiophene). <i>ACS Applied Materials & amp; Interfaces</i> , 2020 , 12, 1094-1102 | 9.5 | 28 | |
| 90 | A2A1DA1A2 type non-fullerene acceptors based on methoxy substituted benzotriazole with three different end-capped groups for P3HT-based organic solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10902-10909 | 7.1 | 28 | |
| 89 | Pyrene-based aggregation-induced emission luminogens (AIEgen): structure correlated with particle size distribution and mechanochromism. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6932-6940 | 7.1 | 27 | |
| 88 | Incorporation of Thienylenevinylene and Triphenylamine Moieties into Polythiophene Side Chains for All-Polymer Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5879-5885 | 3.8 | 27 | |
| 87 | A perylenediimide dimer containing an asymmetric Ebridge and its fused derivative for fullerene-free organic solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2580-2587 | 7.1 | 26 | |

| 86 | Efficient perovskite/organic integrated solar cells with extended photoresponse to 930 nm and enhanced near-infrared external quantum efficiency of over 50. <i>Nanoscale</i> , 2018 , 10, 3245-3253 | 7.7 | 26 |
|----|--|--------|----|
| 85 | A novel thiazole based acceptor for fullerene-free organic solar cells. <i>Dyes and Pigments</i> , 2018 , 149, 47 | 0-4.74 | 26 |
| 84 | All-Polymer Solar Cells from Perylene Diimide Based Copolymers: Material Design and Phase Separation Control. <i>Angewandte Chemie</i> , 2011 , 123, 2851-2855 | 3.6 | 25 |
| 83 | Polythiophene derivative with the simplest conjugated-side-chain of alkenyl: synthesis and applications in polymer solar cells and field-effect transistors. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13476-82 | 3.4 | 25 |
| 82 | Electroluminescence and photovoltaic properties of poly(p-phenylene vinylene) derivatives with dendritic pendants. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 514-521 | 2.9 | 25 |
| 81 | Modulating the Symmetry of Benzodithiophene by Molecular Tailoring for the Application in Naphthalene Diimide-Based N-Type Photovoltaic Polymers. <i>Solar Rrl</i> , 2018 , 2, 1700230 | 7.1 | 24 |
| 8o | PTB7-Th based organic solar cell with a high V oc of 1.05 V by modulating the LUMO energy level of benzotriazole-containing non-fullerene acceptor. <i>Science Bulletin</i> , 2017 , 62, 1275-1282 | 10.6 | 24 |
| 79 | Crumple Durable Ultraflexible Organic Solar Cells with an Excellent Power-per-Weight Performance. <i>Advanced Functional Materials</i> , 2021 , 31, 2102694 | 15.6 | 24 |
| 78 | Polymer bulk heterojunction photovoltaic devices with multilayer structures prepared by thermal lamination. <i>ACS Applied Materials & Description (Materials & Description)</i> , 1, 2703-6 | 9.5 | 23 |
| 77 | Modulation of Three p-Type Polymers Containing a Fluorinated-Thiophene-Fused-Benzotriazole Unit To Pair with a Benzotriazole-Based Non-fullerene Acceptor for High VOC Organic Solar Cells. <i>Macromolecules</i> , 2019 , 52, 8625-8630 | 5.5 | 22 |
| 76 | The effect of alkyl chain branching positions on the electron mobility and photovoltaic performance of naphthodithiophene diimide (NDTI)-based polymers. <i>Science China Chemistry</i> , 2019 , 62, 1649-1655 | 7.9 | 22 |
| 75 | 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. <i>Science Bulletin</i> , 2018 , 63, 845-852 | 10.6 | 22 |
| 74 | Controlling the Cyano-Containing A2 Segments in A2-A1-D-A1-A2 Type Non-Fullerene Acceptors to Combine with a Benzotriazole-Based p-Type Polymer: Bame-Acceptor-StrategyIfor High VOC Organic Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800332 | 7.1 | 21 |
| 73 | Tuning the optoelectronic properties of vinylene linked perylenediimide dimer by ring annulation at the inside or outside bay positions for fullerene-free organic solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 40, 112-119 | 12 | 21 |
| 72 | Design and Synthesis of a Novel n-Type Polymer Based on Asymmetric Rylene Diimide for the Application in All-Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700715 | 4.8 | 20 |
| 71 | Synthesis and properties of DA copolymers based on dithienopyrrole and benzothiadiazole with various numbers of thienyl units as spacers. <i>Polymer Chemistry</i> , 2014 , 5, 6797-6803 | 4.9 | 20 |
| 7º | Comparison of Three n-Type Copolymers Based on Benzodithiophene and Naphthalene Diimide/Perylene Diimide/Fused Perylene Diimides for All-Polymer Solar Cells Application. <i>ACS Applied Materials & Diagram (Comparison of Comparison of Comparis</i> | 9.5 | 19 |
| 69 | Efficient Planar Structured Perovskite Solar Cells with Enhanced Open-Circuit Voltage and Suppressed Charge Recombination Based on a Slow Grown Perovskite Layer from Lead Acetate Precursor. ACS Applied Materials & Discrete Precursor. ACS Appl | 9.5 | 19 |

| 68 | A low band gap n-type polymer based on dithienosilole and naphthalene diimide for all-polymer solar cells application. <i>Polymer</i> , 2015 , 63, 164-169 | 3.9 | 18 |
|----|--|---------------|-----|
| 67 | Benzotriazole-Based p-Type Polymers with Thieno[3,2-b]thiophene Bridges and Fluorine Substituents To Realize High VOC. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 906-913 | 4.3 | 17 |
| 66 | Utilizing Benzotriazole and Indacenodithiophene Units to Construct Both Polymeric Donor and Small Molecular Acceptors to Realize Organic Solar Cells With High Open-Circuit Voltages Beyond 1.2 V. <i>Frontiers in Chemistry</i> , 2018 , 6, 147 | 5 | 17 |
| 65 | An amorphous N-type polymer based on perylenediimide and selenophene for all-polymer solar cells application. <i>Materials Today Communications</i> , 2015 , 4, 16-21 | 2.5 | 16 |
| 64 | Synthesis, characterization and photovoltaic properties of thiophene copolymers containing conjugated side-chain. <i>European Polymer Journal</i> , 2007 , 43, 855-861 | 5.2 | 16 |
| 63 | Spatial Distribution Recast for Organic Bulk Heterojunctions for High-Performance All-Inorganic Perovskite/Organic Integrated Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2000851 | 21.8 | 16 |
| 62 | A-DA?D-A-Type Non-fullerene Acceptors Containing a Fused Heptacyclic Ring for Poly(3-hexylthiophene)-Based Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24616-246 | 5 <u>3</u> 28 | 16 |
| 61 | Indacenodithieno[3,2-b]thiophene-Based Wide Bandgap D-FA Copolymer for Nonfullerene Organic Solar Cells. <i>ACS Macro Letters</i> , 2019 , 8, 1599-1604 | 6.6 | 16 |
| 60 | Expanding the Light Harvesting of CsPbIBr to Near Infrared by Integrating with Organic Bulk Heterojunction for Efficient and Stable Solar Cells. <i>ACS Applied Materials & Distriction Action Section</i> , 11, 379 | 915-37 | 998 |
| 59 | Effects of Inserting Thiophene as a Bridge on the Properties of Naphthalene Diimide-alt-Fused Thiophene Copolymers. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 44070-44078 | 9.5 | 15 |
| 58 | The first thieno[3,4-b]pyrazine based small molecular acceptor with a linear A-A-D-A-A skeleton for fullerene-free organic solar cells with a high V of 1.05 V. <i>Chemical Communications</i> , 2018 , 54, 10770-107 | 7 38 | 15 |
| 57 | Fullerene-free organic photovoltaics based on unconventional material combination: a molecular donor and polymeric acceptors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22325-22331 | 13 | 14 |
| 56 | Fabrication of High Organic Solar Cells with a Non-Halogenated Solvent and the Effect of Substituted Groups for "Same-A-Strategy" Material Combinations. <i>ACS Applied Materials & Material</i> | 9.5 | 14 |
| 55 | Wide Band Gap Non-Fullerene Small Molecular Acceptors Containing Spirobifluorene and Benzotriazole with Three Different End-Capped Groups for P3HT-Based Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 392-398 | 4.9 | 13 |
| 54 | Isatylidene malononitrile derived acceptors for fullerene free organic solar cells. <i>Dyes and Pigments</i> , 2018 , 151, 102-109 | 4.6 | 13 |
| 53 | The effect of conjugated Ebridge and fluorination on the properties of asymmetric-building-block-containing polymers (ABC polymers) based on dithienopyran donor and benzothiadiazole acceptors. <i>Polymer Chemistry</i> , 2017 , 8, 5396-5406 | 4.9 | 13 |
| 52 | Gradually modulating the three parts of D-EA type polymers for high-performance organic solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 62, 532-537 | 12 | 13 |
| 51 | 18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. <i>Nano Today</i> , 2021 , 41, 101289 | 17.9 | 13 |

| 50 | Positioned substituent effect on self-assembly behaviors of perylene diimide derivatives on graphite. <i>Journal of Colloid and Interface Science</i> , 2017 , 504, 58-67 | 9.3 | 12 |
|----|---|------|----|
| 49 | Poly(quinoxaline vinylene) With Conjugated Phenylenevinylene Side Chain: A Potential Polymer Acceptor With Broad Absorption Band. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 1294-1300 | 2.6 | 12 |
| 48 | Utilizing an electron-deficient thieno[3,4-c]pyrrole-4,6-dione (TPD) unit as a Ebridge to improve the photovoltaic performance of ADA type acceptors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15981-15984 | 7.1 | 12 |
| 47 | 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> , 2018 , 6, 12347-12354 | 7.1 | 12 |
| 46 | The first application of isoindigo-based polymers in non-fullerene organic solar cells. <i>Science China Chemistry</i> , 2020 , 63, 1262-1271 | 7.9 | 11 |
| 45 | Effect of fluorination and symmetry on the properties of polymeric photovoltaic materials based on an asymmetric building block. <i>RSC Advances</i> , 2016 , 6, 90051-90060 | 3.7 | 11 |
| 44 | Wide-Band-Gap Phthalimide-Based D-EA Polymers for Nonfullerene Organic Solar Cells: The Effect of Conjugated Bridge from Thiophene to Thieno[3,2-b]thiophene. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 230-236 | 3.8 | 11 |
| 43 | Annealing-free efficient organic solar cells via an alkylbenzene side-chain strategy of small-molecule electron acceptors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22155-22162 | 13 | 10 |
| 42 | Gradual Fluorination on the Phenyl Side Chains for Benzodithiophene-Based Linear Polymers to Improve the Photovoltaic Performance. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 38451-38459 | 9.5 | 10 |
| 41 | Ternary blend strategy in benzotriazole-based organic photovoltaics for indoor application. <i>Green Energy and Environment</i> , 2020 , | 5.7 | 10 |
| 40 | Wide Band Gap Photovoltaic Polymer Based on Pyrrolo[3,4-f]benzotriazole-5,7-dione (TzBI) with Ultrahigh VOC Beyond 1.25 V. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19492-19498 | 3.8 | 10 |
| 39 | Utilizing Benzotriazole-Fused DAD-Type Heptacyclic Ring to Construct n-Type Polymer for All-Polymer Solar Cell Application. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4217-4223 | 6.1 | 10 |
| 38 | Isatin-derived non-fullerene acceptors towards high open circuit voltage solar cells. <i>Dyes and Pigments</i> , 2019 , 162, 898-904 | 4.6 | 10 |
| 37 | End Group Engineering on the Side Chains of Conjugated Polymers toward Efficient Non-Fullerene Organic Solar Cells. <i>ACS Applied Materials & English (Materials & English)</i> 12, 6151-6158 | 9.5 | 9 |
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