# Maojie Zhang

List of Publications by Year
in descending order

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| | | 13827 | 18606 |
|---|---|---|---|
| 179 | 15,300 | 67 | 119 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 179 | 179 | 179 | 7188 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Optimized molecular aggregation via incorporating fluorinated unit in the polymer donor for 17.3% efficiency organic solar cells. Chemical Engineering Journal, 2022, 431, 134117. | 6.6 | 11 |
| 2 | Slotâ€Dieâ€Coated Organic Solar Cells Optimized through Multistep Crystallization Kinetics. Solar Rrl, 2022, 6, . | 3.1 | 7 |
| 3 | An asymmetric wide-bandgap acceptor simultaneously enabling highly efficient single-junction and tandem organic solar cells. Energy and Environmental Science, 2022, 15, 1585-1593. | 15.6 | 89 |
| 4 | Siloxane-functional small molecule acceptor for high-performance organic solar cells with 16.6% efficiency. Chemical Engineering Journal, 2022, 442, 136018. | 6.6 | 8 |
| 5 | 15.8% efficiency all-small-molecule solar cells enabled by a combination of side-chain engineering and polymer additive. Journal of Materials Chemistry A, 2022, 10, 10926-10934. | 5.2 | 12 |
| 6 | Highly efficient ternary solar cells with reduced non-radiative energy loss and enhanced stability via two compatible non-fullerene acceptors. Journal of Materials Chemistry A, 2022, 10, 15605-15613. | 5.2 | 19 |
| 7 | Modulating the nanoscale morphology on carboxylate-pyrazine containing terpolymer toward 17.8% efficiency organic solar cells with enhanced thermal stability. Chemical Engineering Journal, 2022, 446, 137424. | 6.6 | 14 |
| 8 | A novel Aâ€“DAâ€²Dâ€“A bifunctional small molecule for organic solar cell applications with impressive photovoltaic performance. Journal of Materials Chemistry A, 2022, 10, 16497-16505. | 5.2 | 2 |
| 9 | Fineâ€Tuned Morphology Based on Two Wellâ€Miscible Polymer Donors Enables Higher Openâ€Circuit Voltage and Enhanced Stability for Highly Efficient Ternary Allâ€Polymer Solar Cells. Macromolecular Rapid Communications, 2022, 43, . | 2.0 | 2 |
| 10 | Revealing aggregation of non-fullerene acceptors in intermixed phase by ultraviolet-visible absorption spectroscopy. Cell Reports Physical Science, 2022, 3, 100983. | 2.8 | 6 |
| 11 | Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6â€‰% Efficiency Organic Solar Cells with Enhanced Fill Factor. Angewandte Chemie, 2021, 133, 2352-2359. | 1.6 | 21 |
| 12 | Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6â€‰% Efficiency Organic Solar Cells with Enhanced Fill Factor. Angewandte Chemie - International Edition, 2021, 60, 2322-2329. | 7.2 | 138 |
| 13 | Carboxylate substituted pyrazine: A simple and low-cost building block for novel wide bandgap polymer donor enables 15.3% efficiency in organic solar cells. Nano Energy, 2021, 82, 105679. | 8.2 | 48 |
| 14 | Achieving 16.68% efficiency ternary as-cast organic solar cells. Science China Chemistry, 2021, 64, 581-589. | 4.2 | 99 |
| 15 | 16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. Joule, 2021, 5, 914-930. | 11.7 | 228 |
| 16 | Manipulating Crystallization Kinetics of Conjugated Polymers in Nonfullerene Photovoltaic Blends toward Refined Morphologies and Higher Performances. Macromolecules, 2021, 54, 4030-4041. | 2.2 | 16 |
| 17 | Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Nonâ€Fullereneâ€Based Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 15054-15062. | 7.2 | 30 |
| 18 | Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Nonâ€Fullereneâ€Based Solar Cells. Angewandte Chemie, 2021, 133, 15181-15189. | 1.6 | 2 |

| # | Article | IF | Citations |
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| 19 | Tuning Aggregation Behavior of Polymer Donor via<scp>Molecularâ€Weight</scp> Control for Achieving 17.1% Efficiency Inverted Polymer Solar Cells. Chinese Journal of Chemistry, 2021, 39, 1941-1947. | 2.6 | 33 |
| 20 | A unified description of non-radiative voltage losses in organic solar cells. Nature Energy, 2021, 6, 799-806. | 19.8 | 235 |
| 21 | Modulating Crystallinity and Miscibility via Sideâ€chain Variation Enable High Performance <scp>Allâ€Smallâ€Molecule</scp> Organic Solar Cells. Chinese Journal of Chemistry, 2021, 39, 2147-2153. | 2.6 | 21 |
| 22 | 13.4â€‰% Efficiency from Allâ€Smallâ€Molecule Organic Solar Cells Based on a Crystalline Donor with Chlorine and Trialkylsilyl Substitutions. ChemSusChem, 2021, 14, 3535-3543. | 3.6 | 15 |
| 23 | A Noncovalently <scp>Fusedâ€Ring</scp> Asymmetric Electron Acceptor Enables Efficient Organic Solar Cells. Chinese Journal of Chemistry, 2021, 39, 2685-2691. | 2.6 | 21 |
| 24 | Synergistically minimized nonradiative energy loss and optimized morphology achieved via the incorporation of small molecule donor in 17.7% efficiency ternary polymer solar cells. Nano Energy, 2021, 85, 105963. | 8.2 | 47 |
| 25 | Optimizing the Alkyl Side-Chain Design of a Wide Band-Gap Polymer Donor for Attaining Nonfullerene Organic Solar Cells with High Efficiency Using a Nonhalogenated Solvent. Chemistry of Materials, 2021, 33, 5981-5990. | 3.2 | 15 |
| 26 | High-performance alloy-like ternary organic solar cells with two compatible non-fullerene acceptors. Organic Electronics, 2021, 95, 106201. | 1.4 | 6 |
| 27 | Designing efficient A-D-A1-D-A-type non-fullerene acceptors with enhanced fill factor via noncovalently conformational locking. Synthetic Metals, 2021, 278, 116838. | 2.1 | 6 |
| 28 | A Tandem Organic Photovoltaic Cell with 19.6% Efficiency Enabled by Light Distribution Control. Advanced Materials, 2021, 33, e2102787. | 11.1 | 210 |
| 29 | Polymerized small-molecule acceptors based on vinylene as Ï€-bridge for efficient all-polymer solar cells. Polymer, 2021, 230, 124104. | 1.8 | 14 |
| 30 | Ternary organic solar cells with improved efficiency and stability enabled by compatible dual-acceptor strategy. Organic Electronics, 2021, 96, 106227. | 1.4 | 16 |
| 31 | Highly stable inverted non-fullerene OSCs by surface modification of SnO2 with an easy-accessible material. Chemical Engineering Journal, 2021, 426, 131583. | 6.6 | 8 |
| 32 | Enhanced short circuit current density and efficiency of ternary organic solar cells by addition of a simple copolymer third component. Chemical Engineering Journal, 2021, 425, 130575. | 6.6 | 17 |
| 33 | A small molecule acceptor with a heptacyclic benzodi(thienocyclopentafuran) central unit achieving 13.4% efficiency in polymer solar cells with low energy loss. Journal of Materials Chemistry C, 2021, 9, 2744-2751. | 2.7 | 10 |
| 34 | Recent advances in PM6:Y6-based organic solar cells. Materials Chemistry Frontiers, 2021, 5, 3257-3280. | 3.2 | 138 |
| 35 | Direct Observation of the Charge Transfer States from a Non-Fullerene Organic Solar Cell with a Small Driving Force. Journal of Physical Chemistry Letters, 2021, 12, 10595-10602. | 2.1 | 12 |
| 36 | Improving the performance of near infrared binary polymer solar cells by adding a second non-fullerene intermediate band-gap acceptor. Journal of Materials Chemistry C, 2020, 8, 909-915. | 2.7 | 47 |

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| 37 | Efficient Polymer Solar Cells Based on New Random Copolymers with Porphyrinâ€Incorporated Side Chains. Macromolecular Chemistry and Physics, 2020, 221, 1900446. | 1.1 | 2 |
| 38 | Passivated Metal Oxide n-Type Contacts for Efficient and Stable Organic Solar Cells. ACS Applied Energy Materials, 2020, 3, 1111-1118. | 2.5 | 26 |
| 39 | Enhanced efficiency in nonfullerene organic solar cells by tuning molecular order and domain characteristics. Nano Energy, 2020, 77, 105310. | 8.2 | 25 |
| 40 | Efficient all-polymer solar cells based on a narrow-bandgap polymer acceptor. Journal of Materials Chemistry C, 2020, 8, 16180-16187. | 2.7 | 19 |
| 41 | A Nonâ€Conjugated Polymer Acceptor for Efficient and Thermally Stable Allâ€Polymer Solar Cells. Angewandte Chemie, 2020, 132, 20007-20012. | 1.6 | 16 |
| 42 | A Nonâ€Conjugated Polymer Acceptor for Efficient and Thermally Stable Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 19835-19840. | 7.2 | 105 |
| 43 | Random Polymerization Strategy Leads to a Family of Donor Polymers Enabling Wellâ€Controlled Morphology and Multiple Cases of Highâ€Performance Organic Solar Cells. Advanced Materials, 2020, 32, e2003500. | 11.1 | 59 |
| 44 | Butterfly Effects Arising from Starting Materials in Fused-Ring Electron Acceptors. Journal of the American Chemical Society, 2020, 142, 20124-20133. | 6.6 | 87 |
| 45 | Influence of Alkyl Substitution Position on Wideâ€Bandgap Polymers in Highâ€Efficiency Nonfullerene Polymer Solar Cells. Macromolecular Rapid Communications, 2020, 41, e2000170. | 2.0 | 5 |
| 46 | In-situ stabilization strategy for CsPbX3-Silicone resin composite with enhanced luminescence and stability. Nano Energy, 2020, 78, 105150. | 8.2 | 18 |
| 47 | Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and Highâ€Efficiency Semitransparent Organic Photovoltaics. Solar Rrl, 2020, 4, 2000328. | 3.1 | 36 |
| 48 | Efficient Asâ€Cast Polymer Solar Cells with High and Stabilized Fill Factor. Solar Rrl, 2020, 4, 2000275. | 3.1 | 7 |
| 49 | Color-neutral, semitransparent organic photovoltaics for power window applications. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21147-21154. | 3.3 | 109 |
| 50 | Random terpolymer based on thiophene-thiazolothiazole unit enabling efficient non-fullerene organic solar cells. Nature Communications, 2020, 11, 4612. | 5.8 | 225 |
| 51 | Ultrafast Charge Generation Enhancement in Nanoscale Polymer Solar Cells with DIO Additive. Nanomaterials, 2020, 10, 2174. | 1.9 | 5 |
| 52 | Axisymmetric and Asymmetric Naphthalene-Bisthienothiophene Based Nonfullerene Acceptors: On Constitutional Isomerization and Photovoltaic Performance. ACS Applied Energy Materials, 2020, 3, 5734-5744. | 2.5 | 14 |
| 53 | A Nonâ€Fullerene Acceptor with Chlorinated Thienyl Conjugated Side Chains for Highâ€Performance Polymer Solar Cells via Toluene Processing. Chinese Journal of Chemistry, 2020, 38, 697-702. | 2.6 | 20 |
| 54 | A naphthodithiophene-based nonfullerene acceptor for high-performance polymer solar cells with a small energy loss. Journal of Materials Chemistry C, 2020, 8, 6513-6520. | 2.7 | 15 |

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| 55 | A novel wide-bandgap small molecule donor for high efficiency all-small-molecule organic solar cells with small non-radiative energy losses. Energy and Environmental Science, 2020, 13, 1309-1317. | 15.6 | 99 |
| 56 | Over 15% Efficiency Polymer Solar Cells Enabled by Conformation Tuning of Newly Designed Asymmetric Smallâ€Molecule Acceptors. Advanced Functional Materials, 2020, 30, 2000383. | 7.8 | 55 |
| 57 | Conformationâ€Tuning Effect of Asymmetric Small Molecule Acceptors on Molecular Packing, Interaction, and Photovoltaic Performance. Small, 2020, 16, e2001942. | 5.2 | 49 |
| 58 | The role of connectivity in significant bandgap narrowing for fused-pyrene based non-fullerene acceptors toward high-efficiency organic solar cells. Journal of Materials Chemistry A, 2020, 8, 5995-6003. | 5.2 | 11 |
| 59 | Improving open-circuit voltage by a chlorinated polymer donor endows binary organic solar cells efficiencies over 17%. Science China Chemistry, 2020, 63, 325-330. | 4.2 | 292 |
| 60 | Asymmetrically noncovalently fused-ring acceptor for high-efficiency organic solar cells with reduced voltage loss and excellent thermal stability. Nano Energy, 2020, 74, 104861. | 8.2 | 75 |
| 61 | Effects of the Number of Bromine Substitution on Photovoltaic Efficiency and Energy Loss of Benzo[1,2â€b:4,5â€bâ€²]diselenopheneâ€based Narrowâ€Bandgap Multibrominated Nonfullerene Acceptors. Solar Rrl, 2019, 3, 1800250. | 3.1 | 46 |
| 62 | Synthesis and photovoltaic properties of a small molecule acceptor with thienylenevinylene thiophene as Ï€ bridge. Dyes and Pigments, 2019, 160, 227-233. | 2.0 | 10 |
| 63 | Defect passivation by alcohol-soluble small molecules for efficient pâ€“iâ€“n planar perovskite solar cells with high open-circuit voltage. Journal of Materials Chemistry A, 2019, 7, 21140-21148. | 5.2 | 58 |
| 64 | Fluorinated Photovoltaic Materials for Highâ€Performance Organic Solar Cells. Chemistry - an Asian Journal, 2019, 14, 3085-3095. | 1.7 | 66 |
| 65 | A New Smallâ€Molecule Donor Containing Nonâ€Fused Ring Ï€â€Bridge Enables Efficient Organic Solar Cells with High Open Circuit Voltage and Low Acceptor Content. ChemPhysChem, 2019, 20, 2674-2682. | 1.0 | 5 |
| 66 | A wide bandgap conjugated polymer donor based on alkoxyl-fluorophenyl substituted benzodithiophene for high performance non-fullerene polymer solar cells. Journal of Materials Chemistry A, 2019, 7, 1307-1314. | 5.2 | 24 |
| 67 | A non-fullerene acceptor based on alkylphenyl substituted benzodithiophene for high efficiency polymer solar cells with a small voltage loss and excellent stability. Journal of Materials Chemistry A, 2019, 7, 24366-24373. | 5.2 | 28 |
| 68 | Non-fullerene organic solar cells based on a small molecule with benzo[1,2-c:4,5-c']dithiophene-4,8-dione as Ï€-bridge. Organic Electronics, 2019, 67, 175-180. | 1.4 | 9 |
| 69 | Nonhalogen solvent-processed polymer solar cells based on chlorine and trialkylsilyl substituted conjugated polymers achieve 12.8% efficiency. Journal of Materials Chemistry A, 2019, 7, 2351-2359. | 5.2 | 71 |
| 70 | A small molecule donor containing a non-fused ring core for all-small-molecule organic solar cells with high efficiency over 11%. Journal of Materials Chemistry A, 2019, 7, 3682-3690. | 5.2 | 39 |
| 71 | Highly efficient near-infrared and semitransparent polymer solar cells based on an ultra-narrow bandgap nonfullerene acceptor. Journal of Materials Chemistry A, 2019, 7, 3745-3751. | 5.2 | 89 |
| 72 | Synergistic Effects of Sideâ€Chain Engineering and Fluorination on Small Molecule Acceptors to Simultaneously Broaden Spectral Response and Minimize Voltage Loss for 13.8% Efficiency Organic Solar Cells. Solar Rrl, 2019, 3, 1900169. | 3.1 | 22 |

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|---|---|---|---|
| 73 | All-polymer solar cells based on a novel narrow-bandgap polymer acceptor with power conversion efficiency over 10%. Journal of Materials Chemistry A, 2019, 7, 16190-16196. | 5.2 | 103 |
| 74 | A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. Energy and Environmental Science, 2019, 12, 2529-2536. | 15.6 | 213 |
| 75 | Overcoming the energy loss in asymmetrical non-fullerene acceptor-based polymer solar cells by halogenation of polymer donors. Journal of Materials Chemistry A, 2019, 7, 15404-15410. | 5.2 | 39 |
| 76 | Efficient as-cast semi-transparent organic solar cells with efficiency over 9% and a high average visible transmittance of 27.6%. Physical Chemistry Chemical Physics, 2019, 21, 10660-10666. | 1.3 | 29 |
| 77 | Synergetic Transparent Electrode Architecture for Efficient Non-Fullerene Flexible Organic Solar Cells with >12% Efficiency. ACS Nano, 2019, 13, 4686-4694. | 7.3 | 86 |
| 78 | Reduced Energy Loss Enabled by a Chlorinated Thiopheneâ€Fused Endingâ€Group Small Molecular Acceptor for Efficient Nonfullerene Organic Solar Cells with 13.6% Efficiency. Advanced Energy Materials, 2019, 9, 1900041. | 10.2 | 144 |
| 79 | 11.2% Efficiency all-polymer solar cells with high open-circuit voltage. Science China Chemistry, 2019, 62, 845-850. | 4.2 | 140 |
| 80 | Surface modification of ZnO electron transport layers with glycine for efficient inverted non-fullerene polymer solar cells. Organic Electronics, 2019, 70, 25-31. | 1.4 | 41 |
| 81 | Polymer Side-Chain Variation Induces Microstructural Disparity in Nonfullerene Solar Cells. Chemistry of Materials, 2019, 31, 6568-6577. | 3.2 | 45 |
| 82 | A blade-coated highly efficient thick active layer for non-fullerene organic solar cells. Journal of Materials Chemistry A, 2019, 7, 22265-22273. | 5.2 | 46 |
| 83 | A new narrow bandgap polymer as donor material for high performance non-fullerene polymer solar cells. Organic Electronics, 2019, 64, 241-246. | 1.4 | 5 |
| 84 | Highâ€Performance Nonfullerene Polymer Solar Cells Based on a Wideâ€Bandgap Polymer without Extra Treatment. Macromolecular Rapid Communications, 2019, 40, e1800660. | 2.0 | 5 |
| 85 | Near-infrared non-fullerene acceptors based on dithienyl[1,2-b:4,5-bâ€™]benzodithiophene core for high performance PTB7-Th-based polymer solar cells. Organic Electronics, 2019, 65, 63-69. | 1.4 | 11 |
| 86 | Synthesis of organic molecule donor for efficient organic solar cells with low acceptor content. Organic Electronics, 2019, 64, 54-61. | 1.4 | 8 |
| 87 | Chlorine substituted 2D-conjugated polymer for high-performance polymer solar cells with 13.1% efficiency via toluene processing. Nano Energy, 2018, 48, 413-420. | 8.2 | 257 |
| 88 | Significant enhancement of the photovoltaic performance of organic small molecule acceptors via side-chain engineering. Journal of Materials Chemistry A, 2018, 6, 7988-7996. | 5.2 | 38 |
| 89 | A narrow-bandgap donor polymer for highly efficient as-cast non-fullerene polymer solar cells with a high open circuit voltage. Organic Electronics, 2018, 58, 82-87. | 1.4 | 22 |
| 90 | Synthesis and photovoltaic properties of a simple non-fused small molecule acceptor. Organic Electronics, 2018, 58, 133-138. | 1.4 | 30 |

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| 91 | Effect of Fluorination on the Photovoltaic Properties of Medium Bandgap Polymers for Polymer Solar Cells. Chinese Journal of Chemistry, 2018, 36, 502-506. | 2.6 | 4 |
| 92 | Synergistic effect of fluorination on both donor and acceptor materials for high performance non-fullerene polymer solar cells with 13.5% efficiency. Science China Chemistry, 2018, 61, 531-537. | 4.2 | 342 |
| 93 | A trifluoromethyl substituted wide bandgap conjugated polymer for non-fullerene polymer solar cells with 10.4% efficiency. Journal of Materials Chemistry A, 2018, 6, 6551-6558. | 5.2 | 22 |
| 94 | Highâ€Performance Asâ€Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. Advanced Materials, 2018, 30, 1704546. | 11.1 | 233 |
| 95 | Improved photocurrent and efficiency of non-fullerene organic solar cells despite higher charge recombination. Journal of Materials Chemistry A, 2018, 6, 957-962. | 5.2 | 15 |
| 96 | High-performance organic solar cells based on a small molecule with thieno[3,2-b]thiophene as Ï€-bridge. Organic Electronics, 2018, 53, 273-279. | 1.4 | 30 |
| 97 | Exceeding 14% Efficiency for Solution-Processed Tandem Organic Solar Cells Combining Fullerene- and Nonfullerene-Based Subcells with Complementary Absorption. ACS Energy Letters, 2018, 3, 2566-2572. | 8.8 | 45 |
| 98 | Use of two structurally similar small molecular acceptors enabling ternary organic solar cells with high efficiencies and fill factors. Energy and Environmental Science, 2018, 11, 3275-3282. | 15.6 | 261 |
| 99 | A wide-bandgap polymer based on the alkylphenyl-substituted benzo[1,2-b:4,5-bâ€²]dithiophene unit with high power conversion efficiency of over 11%. Journal of Materials Chemistry A, 2018, 6, 16529-16536. | 5.2 | 31 |
| 100 | Efficient and thermally stable all-polymer solar cells based on a fluorinated wide-bandgap polymer donor with high crystallinity. Journal of Materials Chemistry A, 2018, 6, 16403-16411. | 5.2 | 26 |
| 101 | Nonfullerene Polymer Solar Cells based on a Perylene Monoimide Acceptor with a High Openâ€Circuit Voltage of 1.3 V. Advanced Functional Materials, 2017, 27, 1603892. | 7.8 | 67 |
| 102 | A 1,1â€²-vinylene-fused indacenodithiophene-based low bandgap polymer for efficient polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 5106-5114. | 5.2 | 34 |
| 103 | A novel wide bandgap conjugated polymer (2.0 eV) based on bithiazole for high efficiency polymer solar cells. Nano Energy, 2017, 34, 556-561. | 8.2 | 40 |
| 104 | Selenium-Containing Medium Bandgap Copolymer for Bulk Heterojunction Polymer Solar Cells with High Efficiency of 9.8%. Chemistry of Materials, 2017, 29, 4811-4818. | 3.2 | 60 |
| 105 | Two Wellâ€Miscible Acceptors Work as One for Efficient Fullereneâ€Free Organic Solar Cells. Advanced Materials, 2017, 29, 1700437. | 11.1 | 157 |
| 106 | Two compatible nonfullerene acceptors with similar structures as alloy for efficient ternary polymer solar cells. Nano Energy, 2017, 38, 510-517. | 8.2 | 149 |
| 107 | Side-chain engineering for efficient non-fullerene polymer solar cells based on a wide-bandgap polymer donor. Journal of Materials Chemistry A, 2017, 5, 9204-9209. | 5.2 | 76 |
| 108 | Highâ€Performance Nonâ€Fullerene Polymer Solar Cells Based on Fluorine Substituted Wide Bandgap Copolymers Without Extra Treatments. Solar Rrl, 2017, 1, 1700020. | 3.1 | 107 |

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| 109 | A universal approach to improve electron mobility without significant enlarging phase separation in IDT-based non-fullerene acceptor organic solar cells. Nano Energy, 2017, 41, 609-617. | 8.2 | 49 |
| 110 | High-performance nonfullerene polymer solar cells based on a fluorinated wide bandgap copolymer with a high open-circuit voltage of 1.04 V. Journal of Materials Chemistry A, 2017, 5, 22180-22185. | 5.2 | 68 |
| 111 | Origin of Efficient Inverted Nonfullerene Organic Solar Cells: Enhancement of Charge Extraction and Suppression of Bimolecular Recombination Enabled by Augmented Internal Electric Field. Journal of Physical Chemistry Letters, 2017, 8, 5264-5271. | 2.1 | 77 |
| 112 | Efficient non-fullerene polymer solar cells based on a wide bandgap polymer of meta-alkoxy-phenyl-substituted benzodithiophene and difluorobenzotriazole. Journal of Materials Chemistry A, 2017, 5, 19680-19686. | 5.2 | 28 |
| 113 | High Efficiency Nonfullerene Polymer Solar Cells with Thick Active Layer and Large Area. Advanced Materials, 2017, 29, 1702291. | 11.1 | 195 |
| 114 | High-performance nonfullerene polymer solar cells with open-circuit voltage over 1 V and energy loss as low as 0.54 eV. Nano Energy, 2017, 40, 20-26. | 8.2 | 70 |
| 115 | Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains for Single-Component Organic Solar Cells. Chemistry of Materials, 2017, 29, 7073-7077. | 3.2 | 93 |
| 116 | Mapping Polymer Donors toward Highâ€Efficiency Fullerene Free Organic Solar Cells. Advanced Materials, 2017, 29, 1604155. | 11.1 | 360 |
| 117 | Broad Bandgap Dâ€“A Copolymer Based on Bithiazole Acceptor Unit for Application in Highâ€Performance Polymer Solar Cells with Lower Fullerene Content. Macromolecular Rapid Communications, 2016, 37, 1066-1073. | 2.0 | 10 |
| 118 | Effect of solvent additive on active layer morphologies and photovoltaic performance of polymer solar cells based on PBDTTT-C-T/PC71BM. RSC Advances, 2016, 6, 51924-51931. | 1.7 | 11 |
| 119 | A wide-bandgap conjugated polymer for highly efficient inverted single and tandem polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 13251-13258. | 5.2 | 58 |
| 120 | Efficient ternary blend all-polymer solar cells with a polythiophene derivative as a hole-cascade material. Journal of Materials Chemistry A, 2016, 4, 14752-14760. | 5.2 | 91 |
| 121 | 10.8% Efficiency Polymer Solar Cells Based on PTB7â€Th and PC<sub>71</sub>BM via Binary Solvent Additives Treatment. Advanced Functional Materials, 2016, 26, 6635-6640. | 7.8 | 279 |
| 122 | Efficient polymer solar cells based on a copolymer of meta-alkoxy-phenyl-substituted benzodithiophene and thieno[3,4-b]thiophene. Journal of Materials Chemistry A, 2016, 4, 10135-10141. | 5.2 | 36 |
| 123 | Ultra-narrow bandgap D-A copolymer based on thienoisoindigo acceptor unit for application in polymer solar cells with energy losses below 0.6 eV. Synthetic Metals, 2016, 220, 134-140. | 2.1 | 8 |
| 124 | A New Polythiophene Derivative for High Efficiency Polymer Solar Cells with PCE over 9%. Advanced Energy Materials, 2016, 6, 1600430. | 10.2 | 84 |
| 125 | Synthesis and photovoltaic properties of a 2D-conjugated copolymer based on benzodithiophene with alkylthio-selenophene side chain. RSC Advances, 2016, 6, 14229-14235. | 1.7 | 6 |
| 126 | Copolymers based on thiazolothiazole-dithienosilole as hole-transporting materials for high efficient perovskite solar cells. Organic Electronics, 2016, 33, 142-149. | 1.4 | 29 |

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| 127 | Toward high open-circuit voltage by smart chain engineering in 2D-conjugated polymer for polymer solar cells. Solar Energy Materials and Solar Cells, 2016, 149, 162-169. | 3.0 | 11 |
| 128 | A Largeâ€Bandgap Conjugated Polymer for Versatile Photovoltaic Applications with High Performance. Advanced Materials, 2015, 27, 4655-4660. | 11.1 | 882 |
| 129 | Highâ€Performance Organic Solar Cells Based on a Small Molecule with Alkylthioâ€Thienylâ€Conjugated Side Chains without Extra Treatments. Advanced Materials, 2015, 27, 7469-7475. | 11.1 | 186 |
| 130 | Synthesis and photovoltaic properties of an n-type two-dimension-conjugated polymer based on perylene diimide and benzodithiophene with thiophene conjugated side chains. Journal of Materials Chemistry A, 2015, 3, 18442-18449. | 5.2 | 73 |
| 131 | Solution-Processable Organic Molecule for High-Performance Organic Solar Cells with Low Acceptor Content. ACS Applied Materials & Interfaces, 2015, 7, 24686-24693. | 4.0 | 26 |
| 132 | Highly Efficient Tandem Polymer Solar Cells with a Photovoltaic Response in the Visible Light Range. Advanced Materials, 2015, 27, 1189-1194. | 11.1 | 130 |
| 133 | Enhanced Photovoltaic Performance by Modulating Surface Composition in Bulk Heterojunction Polymer Solar Cells Based on PBDTTTâ€Câ€T/PC<sub>71</sub>BM. Advanced Materials, 2014, 26, 4043-4049. | 11.1 | 203 |
| 134 | Synergistic Effect of Fluorination on Molecular Energy Level Modulation in Highly Efficient Photovoltaic Polymers. Advanced Materials, 2014, 26, 1118-1123. | 11.1 | 386 |
| 135 | Influence of the backbone conformation of conjugated polymers on morphology and photovoltaic properties. Polymer Chemistry, 2014, 5, 1976-1981. | 1.9 | 48 |
| 136 | A Polythiophene Derivative with Superior Properties for Practical Application in Polymer Solar Cells. Advanced Materials, 2014, 26, 5880-5885. | 11.1 | 205 |
| 137 | Molecular Design toward Highly Efficient Photovoltaic Polymers Based on Two-Dimensional Conjugated Benzodithiophene. Accounts of Chemical Research, 2014, 47, 1595-1603. | 7.6 | 667 |
| 138 | An Easy and Effective Method to Modulate Molecular Energy Level of the Polymer Based on Benzodithiophene for the Application in Polymer Solar Cells. Advanced Materials, 2014, 26, 2089-2095. | 11.1 | 137 |
| 139 | Efficient Polymer Solar Cells Based on Poly(3-hexylthiophene) and Indeneâ€“C<sub>60</sub> Bisadduct Fabricated with Non-halogenated Solvents. ACS Applied Materials & Interfaces, 2014, 6, 8190-8198. | 4.0 | 86 |
| 140 | Efficient Polymer Solar Cells Based on Benzothiadiazole and Alkylphenyl Substituted Benzodithiophene with a Power Conversion Efficiency over 8%. Advanced Materials, 2013, 25, 4944-4949. | 11.1 | 306 |
| 141 | Remove the Residual Additives toward Enhanced Efficiency with Higher Reproducibility in Polymer Solar Cells. Journal of Physical Chemistry C, 2013, 117, 14920-14928. | 1.5 | 210 |
| 142 | Solution-processed indacenodithiophene-based small molecule for bulk heterojunction solar cells. Journal of Materials Chemistry A, 2013, 1, 14214. | 5.2 | 49 |
| 143 | Synthesis and photovoltaic properties of a Dâ€“A copolymer of dithienosilole and fluorinated-benzotriazole. Polymer Chemistry, 2013, 4, 1467-1473. | 1.9 | 35 |
| 144 | Benzodifuran-alt-thienothiophene based low band gap copolymers: substituent effects on their molecular energy levels and photovoltaic properties. Polymer Chemistry, 2013, 4, 3047. | 1.9 | 45 |

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