List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Recent progress and perspective in solution-processed Interfacial materials for efficient and stable polymer and organometal perovskite solar cells. Energy and Environmental Science, 2015, 8, 1160-1189. | 30.8 | 725 |
| 2 | Over 17% efficiency ternary organic solar cells enabled by two non-fullerene acceptors working in an alloy-like model. Energy and Environmental Science, 2020, 13, 635-645. | 30.8 | 636 |
| 3 | Heterojunction Modification for Highly Efficient Organic–Inorganic Perovskite Solar Cells. ACS Nano, 2014, 8, 12701-12709. | 14.6 | 614 |
| 4 | New Phase for Organic Solar Cell Research: Emergence of Y-Series Electron Acceptors and Their Perspectives. ACS Energy Letters, 2020, 5, 1554-1567. | 17.4 | 491 |
| 5 | Functional fullerenes for organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 4161. | 6.7 | 478 |
| 6 | The role of spin in the kinetic control of recombination in organic photovoltaics. Nature, 2013, 500, 435-439. | 27.8 | 460 |
| 7 | Dopant-Free Hole-Transporting Material with a <i>C</i> _{3<i>h</i>} Symmetrical Truxene Core for Highly Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 2528-2531. | 13.7 | 446 |
| 8 | Integrated Molecular, Interfacial, and Device Engineering towards Highâ€Performance Nonâ€Fullerene Based Organic Solar Cells. Advanced Materials, 2014, 26, 5708-5714. | 21.0 | 400 |
| 9 | An Unfused oreâ€Based Nonfullerene Acceptor Enables Highâ€Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. Advanced Materials, 2018, 30, 1705208. | 21.0 | 380 |
| 10 | Recent advances in perovskite solar cells: efficiency, stability and lead-free perovskite. Journal of Materials Chemistry A, 2017, 5, 11462-11482. | 10.3 | 378 |
| 11 | Highly Efficient Fullerene-Free Organic Solar Cells Operate at Near Zero Highest Occupied Molecular Orbital Offsets. Journal of the American Chemical Society, 2019, 141, 3073-3082. | 13.7 | 362 |
| 12 | Simple non-fused electron acceptors for efficient and stable organic solar cells. Nature Communications, 2019, 10, 2152. | 12.8 | 348 |
| 13 | A spirobifluorene and diketopyrrolopyrrole moieties based non-fullerene acceptor for efficient and thermally stable polymer solar cells with high open-circuit voltage. Energy and Environmental Science, 2016, 9, 604-610. | 30.8 | 347 |
| 14 | Improved Charge Transport and Absorption Coefficient in Indacenodithieno[3,2â€b]thiopheneâ€based Ladderâ€Type Polymer Leading to Highly Efficient Polymer Solar Cells. Advanced Materials, 2012, 24, 6356-6361. | 21.0 | 343 |
| 15 | C ₆₀ as an Efficient n-Type Compact Layer in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2399-2405. | 4.6 | 324 |
| 16 | Highly Efficient Organic Solar Cells with Improved Vertical Donor–Acceptor Compositional Gradient Via an Inverted Offâ€Center Spinning Method. Advanced Materials, 2016, 28, 967-974. | 21.0 | 256 |
| 17 | Asymmetric Electron Acceptors for Highâ€Efficiency and Lowâ€Energyâ€Loss Organic Photovoltaics. Advanced Materials, 2020, 32, e2001160. | 21.0 | 246 |
| 18 | Doping of Fullerenes via Anionâ€Induced Electron Transfer and Its Implication for Surfactant Facilitated High Performance Polymer Solar Cells. Advanced Materials, 2013, 25, 4425-4430. | 21.0 | 244 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Rigidifying Nonplanar Perylene Diimides by Ring Fusion Toward Geometryâ€Tunable Acceptors for Highâ€Performance Fullereneâ€Free Solar Cells. Advanced Materials, 2016, 28, 951-958. | 21.0 | 238 |
| 20 | Efficient Organic Solar Cells with Nonâ€Fullerene Acceptors. Small, 2017, 13, 1701120. | 10.0 | 216 |
| 21 | Suppressed Charge Recombination in Inverted Organic Photovoltaics via Enhanced Charge Extraction by Using a Conductive Fullerene Electron Transport Layer. Advanced Materials, 2014, 26, 6262-6267. | 21.0 | 206 |
| 22 | Molecular Engineered Holeâ€Extraction Materials to Enable Dopantâ€Free, Efficient pâ€iâ€n Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700012. | 19.5 | 195 |
| 23 | Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. Chemistry of Materials, 2018, 30, 5429-5434. | 6.7 | 194 |
| 24 | Enhanced Open ircuit Voltage in High Performance Polymer/Fullerene Bulkâ€Heterojunction Solar Cells by Cathode Modification with a C ₆₀ Surfactant. Advanced Energy Materials, 2012, 2, 82-86. | 19.5 | 185 |
| 25 | Interfacial Engineering of Ultrathin Metal Film Transparent Electrode for Flexible Organic Photovoltaic Cells. Advanced Materials, 2014, 26, 3618-3623. | 21.0 | 178 |
| 26 | Simple Nonâ€Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. Angewandte Chemie - International Edition, 2021, 60, 12964-12970. | 13.8 | 172 |
| 27 | High-performance and eco-friendly semitransparent organic solar cells for greenhouse applications. Joule, 2021, 5, 945-957. | 24.0 | 171 |
| 28 | Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. Energy and Environmental Science, 2013, 6, 3241. | 30.8 | 168 |
| 29 | Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. Journal of Materials Chemistry, 2012, 22, 8574. | 6.7 | 159 |
| 30 | Regioselective Synthesis of 1,4-Di(organo)[60]fullerenes through DMF-assisted Monoaddition of Silylmethyl Grignard Reagents and Subsequent Alkylation Reaction. Journal of the American Chemical Society, 2008, 130, 15429-15436. | 13.7 | 156 |
| 31 | 10.4% Power Conversion Efficiency of ITOâ€Free Organic Photovoltaics Through Enhanced Light Trapping Configuration. Advanced Energy Materials, 2015, 5, 1500406. | 19.5 | 154 |
| 32 | Toward Highâ€Performance Semiâ€Transparent Polymer Solar Cells: Optimization of Ultraâ€Thin Light Absorbing Layer and Transparent Cathode Architecture. Advanced Energy Materials, 2013, 3, 417-423. | 19.5 | 141 |
| 33 | Highâ€Performance Semitransparent Organic Solar Cells with Excellent Infrared Reflection and Seeâ€Through Functions. Advanced Materials, 2020, 32, e2001621. | 21.0 | 140 |
| 34 | Solutionâ€Processible Highly Conducting Fullerenes. Advanced Materials, 2013, 25, 2457-2461. | 21.0 | 130 |
| 35 | Thiocyanate assisted performance enhancement of formamidinium based planar perovskite solar cells through a single one-step solution process. Journal of Materials Chemistry A, 2016, 4, 9430-9436. | 10.3 | 130 |
| 36 | Non-fullerene acceptor organic photovoltaics with intrinsic operational lifetimes over 30 years. Nature Communications, 2021, 12, 5419. | 12.8 | 128 |

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|----|--|------|-----------|
| 37 | Optical Design of Transparent Thin Metal Electrodes to Enhance Inâ€Coupling and Trapping of Light in Flexible Polymer Solar Cells. Advanced Materials, 2012, 24, 6362-6367. | 21.0 | 125 |
| 38 | Highly Efficient Organic Solar Cells Consisting of Double Bulk Heterojunction Layers. Advanced Materials, 2017, 29, 1606729. | 21.0 | 124 |
| 39 | Revealing the effects of molecular packing on the performances of polymer solar cells based on A–D–C–D–A type non-fullerene acceptors. Journal of Materials Chemistry A, 2018, 6, 12132-12141. | 10.3 | 119 |
| 40 | Highâ€Performance Thickness Insensitive Perovskite Solar Cells with Enhanced Moisture Stability. Advanced Energy Materials, 2018, 8, 1800438. | 19.5 | 118 |
| 41 | A Scalable Synthesis of Methano[60]fullerene and Congeners by the Oxidative Cyclopropanation Reaction of Silylmethylfullerene. Journal of the American Chemical Society, 2011, 133, 8086-8089. | 13.7 | 117 |
| 42 | Highâ€Efficiency Polymer Solar Cells Achieved by Doping Plasmonic Metallic Nanoparticles into Dual Charge Selecting Interfacial Layers to Enhance Light Trapping. Advanced Energy Materials, 2013, 3, 666-673. | 19.5 | 116 |
| 43 | Nearâ€Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. Advanced Materials, 2018, 30, e1803769. | 21.0 | 116 |
| 44 | Management of perovskite intermediates for highly efficient inverted planar heterojunction perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 3193-3202. | 10.3 | 113 |
| 45 | Molecular electron acceptors for efficient fullerene-free organic solar cells. Physical Chemistry Chemical Physics, 2017, 19, 3440-3458. | 2.8 | 112 |
| 46 | A Versatile Fluoroâ€Containing Lowâ€Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. Advanced Functional Materials, 2013, 23, 5084-5090. | 14.9 | 110 |
| 47 | A simple perylene diimide derivative with a highly twisted geometry as an electron acceptor for efficient organic solar cells. Journal of Materials Chemistry A, 2016, 4, 10659-10665. | 10.3 | 110 |
| 48 | Enhanced Light Utilization in Semitransparent Organic Photovoltaics Using an Optical Outcoupling Architecture. Advanced Materials, 2019, 31, e1903173. | 21.0 | 105 |
| 49 | Nonfullerene Tandem Organic Solar Cells with High Openâ€Circuit Voltage of 1.97 V. Advanced Materials, 2016, 28, 9729-9734. | 21.0 | 104 |
| 50 | A non-fullerene acceptor with a fully fused backbone for efficient polymer solar cells with a high open-circuit voltage. Journal of Materials Chemistry A, 2016, 4, 14983-14987. | 10.3 | 97 |
| 51 | Molecular insights of exceptionally photostable electron acceptors for organic photovoltaics. Nature Communications, 2021, 12, 3049. | 12.8 | 97 |
| 52 | Side-Chain Effect on Cyclopentadithiophene/Fluorobenzothiadiazole-Based Low Band Gap Polymers and Their Applications for Polymer Solar Cells. Macromolecules, 2013, 46, 5497-5503. | 4.8 | 94 |
| 53 | A Nearâ€Infrared Photoactive Morphology Modifier Leads to Significant Current Improvement and Energy Loss Mitigation for Ternary Organic Solar Cells. Advanced Science, 2018, 5, 1800755. | 11.2 | 93 |
| 54 | Semitransparent Organic Solar Cells with Vivid Colors. ACS Energy Letters, 2020, 5, 3115-3123. | 17.4 | 93 |

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|----|--|------|-----------|
| 55 | Near-Infrared Electron Acceptors with Unfused Architecture for Efficient Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 16700-16706. | 8.0 | 93 |
| 56 | Highâ€Performance Organic Solar Cells from Nonâ€Halogenated Solvents. Advanced Functional Materials, 2022, 32, 2107827. | 14.9 | 92 |
| 57 | Facile synthesis of a 56ï€-electron 1,2-dihydromethano-[60]PCBM and its application for thermally stable polymer solar cells. Chemical Communications, 2011, 47, 10082. | 4.1 | 89 |
| 58 | Microcavityâ€Enhanced Lightâ€Trapping for Highly Efficient Organic Parallel Tandem Solar Cells. Advanced Materials, 2014, 26, 6778-6784. | 21.0 | 89 |
| 59 | Influence of Regio- and Chemoselectivity on the Properties of Fluoro-Substituted Thienothiophene and Benzodithiophene Copolymers. Journal of the American Chemical Society, 2015, 137, 7616-7619. | 13.7 | 89 |
| 60 | Tuning terminal aromatics of electron acceptors to achieve high-efficiency organic solar cells. Journal of Materials Chemistry A, 2019, 7, 27632-27639. | 10.3 | 86 |
| 61 | Energy-level modulation of non-fullerene acceptors to achieve high-efficiency polymer solar cells at a diminished energy offset. Journal of Materials Chemistry A, 2017, 5, 9649-9654. | 10.3 | 83 |
| 62 | A Tetraperylene Diimides Based 3D Nonfullerene Acceptor for Efficient Organic Photovoltaics. Advanced Science, 2015, 2, 1500014. | 11.2 | 79 |
| 63 | A non-fullerene electron acceptor modified by thiophene-2-carbonitrile for solution-processed organic solar cells. Journal of Materials Chemistry A, 2016, 4, 3777-3783. | 10.3 | 77 |
| 64 | Nearâ€Infrared Nonfullerene Acceptors Based on Benzobis(thiazole) Unit for Efficient Organic Solar Cells with Low Energy Loss. Small Methods, 2019, 3, 1900531. | 8.6 | 76 |
| 65 | A Reversible Structural Phase Transition by Electrochemically-Driven Ion Injection into a Conjugated Polymer. Journal of the American Chemical Society, 2020, 142, 7434-7442. | 13.7 | 74 |
| 66 | Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. Advanced Energy Materials, 2014, 4, 1301645. | 19.5 | 71 |
| 67 | Fullerene Active Layers for n-Type Organic Electrochemical Transistors. ACS Applied Materials & Interfaces, 2019, 11, 28138-28144. | 8.0 | 70 |
| 68 | Mitigating the Lead Leakage of High-Performance Perovskite Solar Cells via In Situ Polymerized Networks. ACS Energy Letters, 2021, 6, 3443-3449. | 17.4 | 67 |
| 69 | Boosting Organic–Metal Oxide Heterojunction via Conjugated Small Molecules for Efficient and Stable Nonfullerene Polymer Solar Cells. Advanced Energy Materials, 2019, 9, 1900887. | 19.5 | 62 |
| 70 | Polymer Triplet Energy Levels Need Not Limit Photocurrent Collection in Organic Solar Cells. Journal of the American Chemical Society, 2012, 134, 19661-19668. | 13.7 | 61 |
| 71 | Non-fullerene Acceptors with a Thieno[3,4-c]pyrrole-4,6-dione (TPD) Core for Efficient Organic Solar Cells. Chinese Journal of Polymer Science (English Edition), 2019, 37, 1005-1014. | 3.8 | 61 |
| 72 | Electron acceptors with varied linkages between perylene diimide and benzotrithiophene for efficient fullerene-free solar cells. Journal of Materials Chemistry A, 2017, 5, 9396-9401. | 10.3 | 60 |

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| 73 | Achieving efficient organic solar cells and broadband photodetectors via simple compositional tuning of ternary blends. Nano Energy, 2019, 63, 103807. | 16.0 | 59 |
| 74 | A Simple Electron Acceptor with Unfused Backbone for Polymer Solar Cells. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2019, 35, 394-400. | 4.9 | 59 |
| 75 | Enhanced Charge Transfer between Fullerene and Non-Fullerene Acceptors Enables Highly Efficient Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 42444-42452. | 8.0 | 58 |
| 76 | Coldâ€Aging and Solvent Vapor Mediated Aggregation Control toward 18% Efficiency Binary Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2102000. | 19.5 | 57 |
| 77 | Highly efficient prismatic perovskite solar cells. Energy and Environmental Science, 2019, 12, 929-937. | 30.8 | 54 |
| 78 | Highâ€Performance Semiâ€Transparent Organic Photovoltaic Devices via Improving Absorbing Selectivity. Advanced Energy Materials, 2021, 11, 2003408. | 19.5 | 54 |
| 79 | Enhanced intramolecular charge transfer of unfused electron acceptors for efficient organic solar cells. Materials Chemistry Frontiers, 2019, 3, 513-519. | 5.9 | 53 |
| 80 | Perovskite/Organic Bulkâ€Heterojunction Integrated Ultrasensitive Broadband Photodetectors with High Nearâ€Infrared External Quantum Efficiency over 70%. Small, 2018, 14, e1802349. | 10.0 | 52 |
| 81 | High-performance see-through power windows. Energy and Environmental Science, 2022, 15, 2629-2637. | 30.8 | 51 |
| 82 | Boosting Infrared Light Harvesting by Molecular Functionalization of Metal Oxide/Polymer Interfaces in Efficient Hybrid Solar Cells. Advanced Functional Materials, 2012, 22, 2160-2166. | 14.9 | 49 |
| 83 | Boosting Organic Photovoltaic Performance Over 11% Efficiency With Photoconductive Fullerene Interfacial Modifier. Solar Rrl, 2017, 1, 1600008. | 5.8 | 49 |
| 84 | Near infrared electron acceptors with a photoresponse beyond 1000 nm for highly efficient organic solar cells. Journal of Materials Chemistry A, 2020, 8, 18154-18161. | 10.3 | 49 |
| 85 | Luminescent Bow-Tie-Shaped Decaaryl[60]fullerene Mesogens. Journal of the American Chemical Society, 2009, 131, 17058-17059. | 13.7 | 48 |
| 86 | Evaluation of structure–property relationships of solution-processible fullerene acceptors and their n-channel field-effect transistor performance. Journal of Materials Chemistry, 2012, 22, 14976. | 6.7 | 48 |
| 87 | Face-to-face C6F5–[60]fullerene interaction for ordering fullerene molecules and application to thin-film organic photovoltaics. Chemical Communications, 2010, 46, 8582. | 4.1 | 47 |
| 88 | Key progresses of MOE key laboratory of macromolecular synthesis and functionalization in 2020. Chinese Chemical Letters, 2022, 33, 1650-1658. | 9.0 | 47 |
| 89 | In situ doping and crosslinking of fullerenes to form efficient and robust electron-transporting layers for polymer solar cells. Energy and Environmental Science, 2014, 7, 638-643. | 30.8 | 46 |
| 90 | Enhancement of intra- and inter-molecular π-conjugated effects for a non-fullerene acceptor to achieve high-efficiency organic solar cells with an extended photoresponse range and optimized morphology. Materials Chemistry Frontiers, 2018, 2, 2006-2012. | 5.9 | 46 |

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| 91 | Modulate Organicâ€Metal Oxide Heterojunction via [1,6] Azafulleroid for Highly Efficient Organic Solar Cells. Advanced Materials, 2016, 28, 7269-7275. | 21.0 | 45 |
| 92 | Manganese(iii) acetate-mediated free radical reactions of [60]fullerene with β-dicarbonyl compounds. Organic and Biomolecular Chemistry, 2004, 2, 3464-3469. | 2.8 | 43 |
| 93 | Controlled crystallization of CH3NH3PbI3 films for perovskite solar cells by various PbI2(X) complexes. Solar Energy Materials and Solar Cells, 2016, 155, 331-340. | 6.2 | 43 |
| 94 | Simple Near-Infrared Electron Acceptors for Efficient Photovoltaics and Sensitive Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 39515-39523. | 8.0 | 43 |
| 95 | Conjugated Polymers for Photon-to-Electron and Photon-to-Fuel Conversions. ACS Applied Polymer Materials, 2021, 3, 60-92. | 4.4 | 43 |
| 96 | Open-Circuit Voltage Losses in Selenium-Substituted Organic Photovoltaic Devices from Increased Density of Charge-Transfer States. Chemistry of Materials, 2015, 27, 6583-6591. | 6.7 | 42 |
| 97 | Octupole-like Supramolecular Aggregates of Conical Iron Fullerene Complexes into a Three-Dimensional Liquid Crystalline Lattice. Journal of the American Chemical Society, 2010, 132, 15514-15515. | 13.7 | 41 |
| 98 | Highâ€Efficiency ITOâ€Free Organic Photovoltaics with Superior Flexibility and Upscalability. Advanced Materials, 2022, 34, e2200044. | 21.0 | 41 |
| 99 | Strong Stacking between Fâ‹â‹AN Hydrogenâ€Bonded Foldamers and Fullerenes: Formation of Supramolecular Nano Networks. Chemistry - A European Journal, 2007, 13, 9990-9998. | 3.3 | 40 |
| 100 | The effect of thieno[3,2-b]thiophene on the absorption, charge mobility and photovoltaic performance of diketopyrrolopyrrole-based low bandgap conjugated polymers. Journal of Materials Chemistry C, 2013, 1, 7526. | 5.5 | 38 |
| 101 | Conductive fullerene surfactants <i>via</i> anion doping as cathode interlayers for efficient organic and perovskite solar cells. Organic Chemistry Frontiers, 2018, 5, 2845-2851. | 4.5 | 38 |
| 102 | Unravelling the Mechanism of Ionic Fullerene Passivation for Efficient and Stable Methylammonium-Free Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2015-2022. | 17.4 | 38 |
| 103 | Highâ€Performance Organic Solar Modules via Bilayerâ€Mergedâ€Annealing Assisted Blade Coating. Advanced Materials, 2022, 34, e2110569. | 21.0 | 38 |
| 104 | F··Ĥâ^'N and MeO···Hâ^'N Hydrogen-Bonding in the Solid States of Aromatic Amides and Hydrazides: Comparison Study. Crystal Growth and Design, 2007, 7, 1490-1496. | А _{3.0} | 37 |
| 105 | Doping Versatile n-Type Organic Semiconductors via Room Temperature Solution-Processable Anionic Dopants. ACS Applied Materials & Interfaces, 2017, 9, 1136-1144. | 8.0 | 35 |
| 106 | Key progresses of MOE key laboratory of macromolecular synthesis and functionalization in 2021. Chinese Chemical Letters, 2023, 34, 107592. | 9.0 | 35 |
| 107 | Three-dimensional molecular donors combined with polymeric acceptors for high performance fullerene-free organic photovoltaic devices. Journal of Materials Chemistry A, 2015, 3, 22162-22169. | 10.3 | 33 |
| 108 | Achieving high-performance thick-film perovskite solar cells with electron transporting Bingel fullerenes. Journal of Materials Chemistry A, 2018, 6, 15495-15503. | 10.3 | 32 |

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| 109 | Multifunctional semitransparent organic solar cells with excellent infrared photon rejection. Chinese Chemical Letters, 2020, 31, 1608-1611. | 9.0 | 31 |
| 110 | Highly efficient ITO-free organic solar cells with a column-patterned microcavity. Energy and Environmental Science, 2021, 14, 3010-3018. | 30.8 | 29 |
| 111 | Combining Fusedâ€Ring and Unfusedâ€Core Electron Acceptors Enables Efficient Ternary Organic Solar Cells with Enhanced Fill Factor and Broad Compositional Tolerance. Solar Rrl, 2019, 3, 1900317. | 5.8 | 28 |
| 112 | Enhancing the Photovoltaic Performance and Moisture Stability of Perovskite Solar Cells <i>Via</i> Polyfluoroalkylated Imidazolium Additives. ACS Applied Materials & Interfaces, 2021, 13, 4553-4559. | 8.0 | 28 |
| 113 | A selenophene-containing near-infrared unfused acceptor for efficient organic solar cells. Chemical Engineering Journal, 2022, 429, 132298. | 12.7 | 28 |
| 114 | A non-fullerene acceptor enables efficient P3HT-based organic solar cells with small voltage loss and thickness insensitivity. Chinese Chemical Letters, 2019, 30, 1277-1281. | 9.0 | 26 |
| 115 | Modulation of hybrid organic–perovskite photovoltaic performance by controlling the excited dynamics of fullerenes. Materials Horizons, 2015, 2, 414-419. | 12.2 | 24 |
| 116 | Fulleropyrrolidinium Iodide As an Efficient Electron Transport Layer for Air-Stable Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 34612-34619. | 8.0 | 24 |
| 117 | Organic functional materials based buffer layers for efficient perovskite solar cells. Chinese Chemical Letters, 2017, 28, 503-511. | 9.0 | 24 |
| 118 | High-efficiency organic solar cells with low voltage-loss of 0.46 V. Chinese Chemical Letters, 2020, 31, 1991-1996. | 9.0 | 24 |
| 119 | Crystalline Co-Assemblies of Functional Fullerenes in Methanol with Enhanced Charge Transport. Journal of the American Chemical Society, 2015, 137, 2167-2170. | 13.7 | 23 |
| 120 | Intrinsically Chemo- and Thermostable Electron Acceptors for Efficient Organic Solar Cells. Bulletin of the Chemical Society of Japan, 2021, 94, 183-190. | 3.2 | 22 |
| 121 | Non-fused medium bandgap electron acceptors for efficient organic photovoltaics. Journal of Energy Chemistry, 2022, 70, 576-582. | 12.9 | 22 |
| 122 | Healing the degradable organic–inorganic heterointerface for highly efficient and stable organic solar cells. InformaÄnÃ-Materiály, 2022, 4, . | 17.3 | 21 |
| 123 | Efficient and 1,8-diiodooctane-free ternary organic solar cells fabricated via nanoscale morphology tuning using small-molecule dye additive. Nano Research, 2017, 10, 3765-3774. | 10.4 | 20 |
| 124 | Enhanced performance of inverted non-fullerene organic solar cells through modifying zinc oxide surface with self-assembled monolayers. Organic Electronics, 2018, 63, 143-148. | 2.6 | 20 |
| 125 | Foldamer-based pyridine–fullerene tweezer receptors for enhanced binding of zinc porphyrin. Tetrahedron, 2006, 62, 11054-11062. | 1.9 | 18 |
| 126 | Modulate Molecular Interaction between Hole Extraction Polymers and Lead Ions toward Hysteresisâ€Free and Efficient Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800090. | 3.7 | 18 |

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|-----|---|------|-----------|
| 127 | Simple Nonâ€Fused Electron Acceptors Leading to Efficient Organic Photovoltaics. Angewandte Chemie, 2021, 133, 13074-13080. | 2.0 | 18 |
| 128 | Pot- and atom-economic synthesis of oligomeric non-fullerene acceptors <i>via</i> C–H direct arylation. Polymer Chemistry, 2022, 13, 2351-2361. | 3.9 | 18 |
| 129 | Tetrathienodibenzocarbazole Based Donor–Acceptor Type Wide Band-Gap Copolymers for Polymer Solar Cell Applications. Macromolecules, 2014, 47, 7407-7415. | 4.8 | 17 |
| 130 | Toward Efficient Triple-Junction Polymer Solar Cells through Rational Selection of Middle Cells. ACS Energy Letters, 2020, 5, 1771-1779. | 17.4 | 17 |
| 131 | Regioselective synthesis of tetra(aryl)-mono(silylmethyl)[60]fullerenes and derivatization to methanofullerene compound. Tetrahedron, 2011, 67, 9944-9949. | 1.9 | 16 |
| 132 | Highâ€Efficiency Ternary Organic Solar Cells Based on the Synergized Polymeric and Smallâ€Molecule Donors. Solar Rrl, 2020, 4, 2000537. | 5.8 | 16 |
| 133 | Self-Assembled Donor–Acceptor Dyad Molecules Stabilize the Heterojunction of Inverted Perovskite Solar Cells and Modules. ACS Applied Materials & Interfaces, 2022, 14, 6794-6800. | 8.0 | 16 |
| 134 | A-D-A small molecule donors based on pyrene and diketopyrrolopyrrole for organic solar cells. Science China Chemistry, 2017, 60, 561-569. | 8.2 | 15 |
| 135 | Aqueous solutionâ€processed NiO _x anode buffer layers applicable for polymer solar cells. Journal of Polymer Science Part A, 2017, 55, 747-753. | 2.3 | 15 |
| 136 | Solutionâ€Processable Conductive Organics via Anionâ€Induced nâ€Doping and Their Applications in Organic and Perovskite Solar Cells. Macromolecular Chemistry and Physics, 2019, 220, 1900084. | 2.2 | 15 |
| 137 | A conductive liquid crystal via facile doping of an n-type benzodifurandione derivative. Journal of Materials Chemistry A, 2015, 3, 6929-6934. | 10.3 | 14 |
| 138 | A non-fullerene electron acceptor with a spirobifluorene core and four diketopyrrolopyrrole arms end capped by 4-fluorobenzene. Dyes and Pigments, 2017, 143, 217-222. | 3.7 | 14 |
| 139 | Câ`'H Direct Arylation: A Robust Tool to Tailor the π onjugation Lengths of Nonâ€Fullerene Acceptors. ChemSusChem, 2022, 15, . | 6.8 | 14 |
| 140 | †Two-point'-bound supramolecular complexes from semi-rigidified dipyridine receptors and zinc porphyrins. Tetrahedron, 2006, 62, 6973-6980. | 1.9 | 13 |
| 141 | A medium-bandgap small molecule donor compatible with both fullerene and unfused-ring nonfullerene acceptors for efficient organic solar cells. Journal of Materials Chemistry C, 2019, 7, 13396-13401. | 5.5 | 13 |
| 142 | Influence of Bridging Groups on the Photovoltaic Properties of Wide-Bandgap Poly(BDTT- <i>alt</i> -BDD)s. ACS Applied Materials & Interfaces, 2019, 11, 1394-1401. | 8.0 | 13 |
| 143 | Controllable Anion Doping of Electron Acceptors for High-Efficiency Organic Solar Cells. ACS Energy Letters, 2022, 7, 1764-1773. | 17.4 | 12 |
| 144 | Foldamerâ€Derived Preorganized Bi―and Triâ€zinc Porphyrin Tweezers for a Pentafluorobenzeneâ€bearing Pyridine Guest: The Binding Pattern Study. Chinese Journal of Chemistry, 2013, 31, 582-588. | 4.9 | 10 |

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| 145 | Functional Carbon Nanofibers with Semiâ€Embedded Titanium Oxide Particles via Electrospinning. Macromolecular Rapid Communications, 2018, 39, e1800102. | 3.9 | 10 |
| 146 | Non-conjugated electrolytes as thickness-insensitive interfacial layers for high-performance organic solar cells. Journal of Materials Chemistry A, 2021, 9, 22926-22933. | 10.3 | 9 |
| 147 | Donor-acceptor (D-A) terpolymers based on alkyl-DPP and t -BocDPP moieties for polymer solar cells. Chinese Chemical Letters, 2017, 28, 2223-2226. | 9.0 | 8 |
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