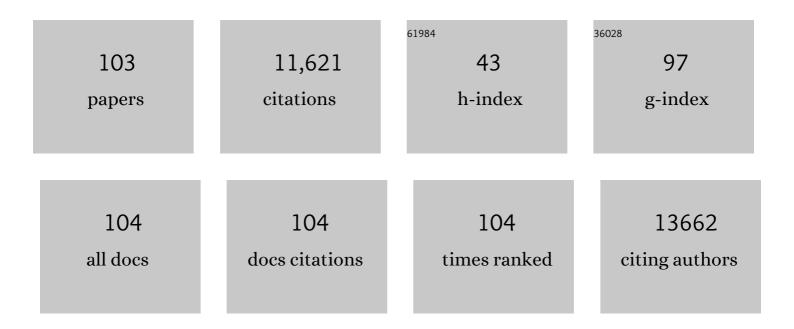
Minmin Shi

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Graphene-Like Two-Dimensional Materials. Chemical Reviews, 2013, 113, 3766-3798. | 47.7 | 3,761 |
| 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 | 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 |
| 4 | 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 |
| 5 | Layerâ€by‣ayer Processed Ternary Organic Photovoltaics with Efficiency over 18%. Advanced Materials, 2021, 33, e2007231. | 21.0 | 438 |
| 6 | 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 |
| 7 | 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 |
| 8 | Simple non-fused electron acceptors for efficient and stable organic solar cells. Nature Communications, 2019, 10, 2152. | 12.8 | 348 |
| 9 | 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 |
| 10 | Asymmetric Electron Acceptors for Highâ€Efficiency and Lowâ€Energy‣oss Organic Photovoltaics. Advanced Materials, 2020, 32, e2001160. | 21.0 | 246 |
| 11 | Efficient Organic Solar Cells with Nonâ€Fullerene Acceptors. Small, 2017, 13, 1701120. | 10.0 | 216 |
| 12 | Desired open-circuit voltage increase enables efficiencies approaching 19% in symmetric-asymmetric molecule ternary organic photovoltaics. Joule, 2022, 6, 662-675. | 24.0 | 212 |
| 13 | 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 |
| 14 | Blending of HAuCl4 and histidine in aqueous solution: a simple approach to the Au10 cluster. Nanoscale, 2011, 3, 2596. | 5.6 | 179 |
| 15 | Atomically Monodispersed and Fluorescent Subâ€Nanometer Gold Clusters Created by Biomoleculeâ€Assisted Etching of Nanometer‣ized Gold Particles and Rods. Chemistry - A European Journal, 2009, 15, 4944-4951. | 3.3 | 147 |
| 16 | Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. Advanced Functional Materials, 2015, 25, 5954-5966. | 14.9 | 140 |
| 17 | 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 |
| 18 | Molecular electron acceptors for efficient fullerene-free organic solar cells. Physical Chemistry Chemical Physics, 2017, 19, 3440-3458. | 2.8 | 112 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | Nonfullerene Tandem Organic Solar Cells with High Open ircuit Voltage of 1.97 V. Advanced Materials, 2016, 28, 9729-9734. | 21.0 | 104 |
| 21 | Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. Nature Communications, 2021, 12, 4627. | 12.8 | 98 |
| 22 | 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 |
| 23 | 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 |
| 24 | Near-Infrared Electron Acceptors with Unfused Architecture for Efficient Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 16700-16706. | 8.0 | 93 |
| 25 | One-Step Fabrication of CdS Nanorod Arrays via Solution Chemistry. Journal of Physical Chemistry C, 2008, 112, 13457-13462. | 3.1 | 90 |
| 26 | 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 |
| 27 | 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 |
| 28 | A solution-processable bipolar diketopyrrolopyrrole molecule used as both electron donor and acceptor for efficient organic solar cells. Journal of Materials Chemistry A, 2015, 3, 1902-1905. | 10.3 | 79 |
| 29 | 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 |
| 30 | 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 |
| 31 | Design of Non-fused Ring Acceptors toward High-Performance, Stable, and Low-Cost Organic Photovoltaics. Accounts of Materials Research, 2022, 3, 644-657. | 11.7 | 66 |
| 32 | An ester-functionalized diketopyrrolopyrrole molecule with appropriate energy levels for application in solution-processed organic solar cells. Journal of Materials Chemistry A, 2013, 1, 105-111. | 10.3 | 63 |
| 33 | 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 |
| 34 | 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 |
| 35 | A New End Group on Nonfullerene Acceptors Endows Efficient Organic Solar Cells with Low Energy Losses. Advanced Functional Materials, 2022, 32, 2108614. | 14.9 | 56 |
| 36 | Enhanced intramolecular charge transfer of unfused electron acceptors for efficient organic solar cells. Materials Chemistry Frontiers, 2019, 3, 513-519. | 5.9 | 53 |

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|----|--|------|-----------|
| 37 | Template-free synthesis of vertically aligned CdS nanorods and its application in hybrid solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 338-344. | 6.2 | 52 |
| 38 | Effect of CsF interlayer on the performance of polymer bulk heterojunction solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 650-653. | 6.2 | 51 |
| 39 | Fe ₃ O ₄ @Au/polyaniline multifunctional nanocomposites: their preparation and optical, electrical and magnetic properties. Nanotechnology, 2008, 19, 265702. | 2.6 | 49 |
| 40 | Si/ZnO core–shell nanowire arrays for photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2011, 36, 15153-15159. | 7.1 | 49 |
| 41 | Shape-controlled syntheses of PbS submicro-/nano-crystals via hydrothermal method. Journal of Crystal Growth, 2009, 311, 1533-1538. | 1.5 | 47 |
| 42 | 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 |
| 43 | Improved photon-to-electron response of ternary blend organic solar cells with a low band gap polymer sensitizer and interfacial modification. Journal of Materials Chemistry A, 2016, 4, 1702-1707. | 10.3 | 45 |
| 44 | High efficiency hybrid solar cells using post-deposition ligand exchange by monothiols. Physical Chemistry Chemical Physics, 2012, 14, 12094. | 2.8 | 42 |
| 45 | A diketopyrrolopyrrole molecule end-capped with a furan-2-carboxylate moiety: the planarity of molecular geometry and photovoltaic properties. Journal of Materials Chemistry A, 2014, 2, 6589. | 10.3 | 42 |
| 46 | Highâ€Efficiency ITOâ€Free Organic Photovoltaics with Superior Flexibility and Upscalability. Advanced Materials, 2022, 34, e2200044. | 21.0 | 41 |
| 47 | Incorporation of ester groups into low band-gap diketopyrrolopyrrole containing polymers for solar cell applications. Journal of Materials Chemistry, 2012, 22, 15710. | 6.7 | 40 |
| 48 | Conformation Locking of Simple Nonfused Electron Acceptors Via Multiple Intramolecular Noncovalent Bonds to Improve the Performances of Organic Solar Cells. ACS Applied Energy Materials, 2021, 4, 819-827. | 5.1 | 40 |
| 49 | Toward Highly Thermal Stable Perovskite Solar Cells by Rational Design of Interfacial Layer. IScience, 2019, 22, 534-543. | 4.1 | 38 |
| 50 | A simple synthesis of Fe3O4 nanoclusters and their electromagnetic nanocomposites with polyaniline. Materials Chemistry and Physics, 2010, 122, 588-594. | 4.0 | 35 |
| 51 | Synthesis, characterization, and photovoltaic property of a low band gap polymer alternating dithienopyrrole and thienopyrroledione units. Polymer, 2011, 52, 2559-2564. | 3.8 | 34 |
| 52 | Synthesis and Photovoltaic Properties of Ester Group Functionalized Polythiophene Derivatives. Macromolecular Rapid Communications, 2011, 32, 506-511. | 3.9 | 33 |
| 53 | Synergistic Effects of Chlorination and Branched Alkyl Side Chain on the Photovoltaic Properties of Simple Nonâ€Fullerene Acceptors with Quinoxaline as the Core. ChemSusChem, 2021, 14, 3599-3606. | 6.8 | 33 |
| 54 | Diketo-pyrrolo-pyrrole-Based Medium Band Gap Copolymers for Efficient Plastic Solar Cells: Morphology, Transport, and Composition-Dependent Photovoltaic Behavior. Journal of Physical Chemistry C, 2011, 115, 11282-11292. | 3.1 | 32 |

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| 55 | Synthesis and photovoltaic properties from inverted geometry cells and roll-to-roll coated large area cells from dithienopyrrole-based donor–acceptor polymers. Journal of Materials Chemistry A, 2013, 1, 1785-1793. | 10.3 | 32 |
| 56 | Synthesis, electrochemical, and spectroscopic properties of soluble perylene monoimide diesters. Tetrahedron, 2008, 64, 5404-5409. | 1.9 | 31 |
| 57 | A direct arylation-derived DPP-based small molecule for solution-processed organic solar cells. Nanotechnology, 2014, 25, 014006. | 2.6 | 30 |
| 58 | Improving Polymer/Nanocrystal Hybrid Solar Cell Performance via Tuning Ligand Orientation at CdSe Quantum Dot Surface. ACS Applied Materials & Interfaces, 2014, 6, 19154-19160. | 8.0 | 30 |
| 59 | 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 |
| 60 | Influences of Quinoid Structures on Stability and Photovoltaic Performance of Nonfullerene Acceptors. Solar Rrl, 2020, 4, 2000286. | 5.8 | 27 |
| 61 | 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 |
| 62 | High gas-sensitivity and selectivity of fluorinated zinc phthalocyanine film to some non-oxidizing gases at room temperature. Thin Solid Films, 2005, 489, 257-261. | 1.8 | 25 |
| 63 | Roll-coating fabrication of ITO-free flexible solar cells based on a non-fullerene small molecule acceptor. RSC Advances, 2015, 5, 36001-36006. | 3.6 | 25 |
| 64 | Non-fullerene acceptors with nitrogen-containing six-membered heterocycle cores for the applications in organic solar cells. Solar Energy Materials and Solar Cells, 2021, 225, 111046. | 6.2 | 23 |
| 65 | Highly efficient hybrid solar cells with tunable dipole at the donor–acceptor interface. Nanoscale, 2014, 6, 10545-10550. | 5.6 | 20 |
| 66 | 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 |
| 67 | Fe3O4nanobelts: one-pot and template-free synthesis, magnetic property, and application for lithium storage. Nanotechnology, 2012, 23, 395601. | 2.6 | 18 |
| 68 | Design of charge transporting grids for efficient ITO-free flexible up-scaled organic photovoltaics. Materials Chemistry Frontiers, 2017, 1, 304-309. | 5.9 | 18 |
| 69 | Water-soluble and highly fluorescent hybrids of multi-walled carbon nanotubes with uniformly arranged gold nanoparticles. Nanotechnology, 2007, 18, 485603. | 2.6 | 17 |
| 70 | Preparation and photo-induced charge transfer of the composites based on 3D structural CdS nanocrystals and MEH-PPV. Solar Energy, 2010, 84, 771-776. | 6.1 | 17 |
| 71 | Synthesis and photovoltaic properties of n-type conjugated polymers alternating 2,7-carbazole and arylene diimides. Solar Energy Materials and Solar Cells, 2012, 103, 157-163. | 6.2 | 17 |
| 72 | Optical and electrical effects of plasmonic nanoparticles in high-efficiency hybrid solar cells. Physical Chemistry Chemical Physics, 2013, 15, 17105-17111. | 2.8 | 17 |

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| # | Article | IF | CITATIONS |
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| 73 | A Benzobis(thiazole)-Based Wide Bandgap Polymer Donor Enables over 15% Efficiency Organic Photovoltaics with a Flat Energetic Offset. Macromolecules, 2021, 54, 7862-7869. | 4.8 | 17 |
| 74 | Solvent-dependent fluorescence property of multi-walled carbon nanotubes noncovalently functionalized by pyrene-derivatized polymer. Nanotechnology, 2009, 20, 135705. | 2.6 | 16 |
| 75 | Effect of end-groups on the photovoltaic property of diphenyl substituted diketopyrrolopyrrole derivatives. Synthetic Metals, 2014, 188, 66-71. | 3.9 | 16 |
| 76 | A nuanced approach for assessing OPV materials for large scale applications. Sustainable Energy and Fuels, 2020, 4, 940-949. | 4.9 | 16 |
| 77 | Phase controlled all-polymer bulk-heterojunction photovoltaic cells with high open-circuit voltage. Solar Energy Materials and Solar Cells, 2010, 94, 2244-2250. | 6.2 | 15 |
| 78 | Design and synthesis of carbonyl group modified conjugated polymers for photovoltaic application. Polymer Bulletin, 2012, 68, 1867-1877. | 3.3 | 14 |
| 79 | 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 |
| 80 | Synthesis of monodisperse and single-crystal Fe3O4 hollow spheres by a solvothermal approach. Materials Chemistry and Physics, 2012, 132, 987-992. | 4.0 | 13 |
| 81 | New –(D–A1–D–A2)n– type conjugated polymers for photovoltaic applications: consensus between low band-gap and low HOMO energy level. Tetrahedron, 2013, 69, 3419-3424. | 1.9 | 13 |
| 82 | Roll coated large area ITO- and vacuum-free all organic solar cells from diketopyrrolopyrrole based non-fullerene acceptors with molecular geometry effects. RSC Advances, 2016, 6, 41542-41550. | 3.6 | 13 |
| 83 | 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 |
| 84 | The effect of molecular geometry on the photovoltaic property of diketopyrrolopyrrole based non-fullerene acceptors. Synthetic Metals, 2015, 203, 249-254. | 3.9 | 9 |
| 85 | Erbium bisphthalocyanine nanowires by electrophoretic deposition: Morphology control and optical properties. Thin Solid Films, 2009, 517, 2099-2105. | 1.8 | 8 |
| 86 | Improving the device performance of organic solar cells with immiscible solid additives. Journal of Materials Chemistry C, 2022, 10, 2749-2756. | 5.5 | 8 |
| 87 | Carrier Transport in Zinc Phthalocyanine Doped with a Fluorinated Perylene Derivative: Bulk Conductivity versus Interfacial Injection. Journal of Physical Chemistry C, 2009, 113, 17160-17169. | 3.1 | 7 |
| 88 | Effect of substituents on the aggregate structure and photovoltaic property of violanthrone derivatives. Dyes and Pigments, 2012, 95, 377-383. | 3.7 | 7 |
| 89 | A novel electrochemically and thermally stable polythiophene for photovoltaic application. Journal of Applied Polymer Science, 2013, 127, 161-168. | 2.6 | 6 |
| 90 | Recent development of organic electron transport materials*. Progress in Natural Science: Materials International, 2003, 13, 81-87. | 4.4 | 5 |

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| 91 | Hydrothermal synthesis of Cu2S nanocrystalline thin film on indium tin oxide substrate: Morphology, optical and electrical properties. Thin Solid Films, 2012, 520, 5249-5253. | 1.8 | 5 |
| 92 | Crystal growth and characterization of fluorinated perylene diimides. Chemical Research in Chinese Universities, 2014, 30, 63-67. | 2.6 | 4 |
| 93 | A bipolar diketopyrrolopyrrole molecule end capped with thiophene-2,3-dicarboxylate used as both electron donor and acceptor for organic solar cells. Synthetic Metals, 2016, 222, 211-218. | 3.9 | 4 |
| 94 | Phosphate ester sideâ€chainâ€modified conjugated polymer for hybrid solar cells. Journal of Applied Polymer Science, 2017, 134, . | 2.6 | 3 |
| 95 | Synthesis of a novel perylene diimide derivative and its charge transfer interaction with C60. Science in China Series B: Chemistry, 2008, 51, 152-157. | 0.8 | 2 |
| 96 | Tandem Organic Solar Cells: Nonfullerene Tandem Organic Solar Cells with High Open-Circuit Voltage of 1.97 V (Adv. Mater. 44/2016). Advanced Materials, 2016, 28, 9870-9870. | 21.0 | 2 |
| 97 | Conformation tuning of simple non-fused electron acceptors via oxygen and sulfur substitutions and its effects on photovoltaics. Multifunctional Materials, 2021, 4, 024003. | 3.7 | 2 |
| 98 | Potential Toxic Effects of Nano-Oxides. , 2012, , 347-373. | | 1 |
| 99 | Selection of side groups on simple <scp>nonâ€fullerene</scp> acceptors for the application in organic solar cells: From flexible to rigid. Journal of Polymer Science, 2022, 60, 2343-2351. | 3.8 | 1 |
| 100 | Water-Soluble and Ambient-Stable Au@MWNTs Nanohybrids by in situ Fabrication in Solution. , 2007, , . | | 0 |
| 101 | Chemical modification of AlQ3 to a potential electron acceptor for solution-processed organic solar cells. Tetrahedron Letters, 2016, 57, 2797-2799. | 1.4 | 0 |
| 102 | PREPARATION AND PHOTO-INDUCED CHARGE TRANSFER OF COMPOSITES BASED ON PCPDTBT. Acta Polymerica Sinica, 2009, 009, 790-795. | 0.0 | 0 |
| 103 | Toward Highly Thermal Stable Perovskite Solar Cells by Rational Design of Interfacial Layer. SSRN Electronic Journal, 0, , . | 0.4 | 0 |