List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A High-Mobility Electron-Transport Polymer with Broad Absorption and Its Use in Field-Effect Transistors and All-Polymer Solar Cells. Journal of the American Chemical Society, 2007, 129, 7246-7247. | 6.6 | 1,110 |
| 2 | Synthesis and Photovoltaic Properties of Two-Dimensional Conjugated Polythiophenes with Bi(thienylenevinylene) Side Chains. Journal of the American Chemical Society, 2006, 128, 4911-4916. | 6.6 | 759 |
| 3 | Engineering triangular carbon quantum dots with unprecedented narrow bandwidth emission for multicolored LEDs. Nature Communications, 2018, 9, 2249. | 5.8 | 676 |
| 4 | Design, Application, and Morphology Study of a New Photovoltaic Polymer with Strong Aggregation in Solution State. Macromolecules, 2012, 45, 9611-9617. | 2.2 | 664 |
| 5 | Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent Lightâ€Emitting Diodes. Advanced Materials, 2017, 29, 1604436. | 11.1 | 643 |
| 6 | Highly Emissive and Colorâ€Tunable CuInS ₂ â€Based Colloidal Semiconductor Nanocrystals: Offâ€Stoichiometry Effects and Improved Electroluminescence Performance. Advanced Functional Materials, 2012, 22, 2081-2088. | 7.8 | 449 |
| 7 | Highâ€Performance Inverted Polymer Solar Cells with Solutionâ€Processed Titanium Chelate as Electronâ€Collecting Layer on ITO Electrode. Advanced Materials, 2012, 24, 1476-1481. | 11.1 | 305 |
| 8 | Solution-processable metal oxides/chelates as electrode buffer layers for efficient and stable polymer solar cells. Energy and Environmental Science, 2015, 8, 1059-1091. | 15.6 | 265 |
| 9 | Bright and Color-Saturated Emission from Blue Light-Emitting Diodes Based on Solution-Processed Colloidal Nanocrystal Quantum Dots. Nano Letters, 2007, 7, 3803-3807. | 4.5 | 197 |
| 10 | Nearâ€Bandâ€Edge Electroluminescence from Heavyâ€Metalâ€Free Colloidal Quantum Dots. Advanced Materials, 2011, 23, 3553-3558. | 11.1 | 180 |
| 11 | Electroluminescent Warm White Lightâ€Emitting Diodes Based on Passivation Enabled Bright Red Bandgap Emission Carbon Quantum Dots. Advanced Science, 2019, 6, 1900397. | 5.6 | 174 |
| 12 | Copolymers of perylene diimide with dithienothiophene and dithienopyrrole as electron-transport materials for all-polymer solar cells and field-effect transistors. Journal of Materials Chemistry, 2009, 19, 5794. | 6.7 | 165 |
| 13 | High performance polymer solar cells with as-prepared zirconium acetylacetonate film as cathode buffer layer. Scientific Reports, 2014, 4, 4691. | 1.6 | 165 |
| 14 | Passivation of the grain boundaries of CH ₃ NH ₃ PbI ₃ using carbon quantum dots for highly efficient perovskite solar cells with excellent environmental stability. Nanoscale, 2019, 11, 115-124. | 2.8 | 164 |
| 15 | Solution-Processed Tungsten Oxide as an Effective Anode Buffer Layer for High-Performance Polymer Solar Cells. Journal of Physical Chemistry C, 2012, 116, 18626-18632. | 1.5 | 157 |
| 16 | Fluorescent Carbon Dots: Fantastic Electroluminescent Materials for Lightâ€Emitting Diodes. Advanced Science, 2021, 8, 2001977. | 5.6 | 141 |
| 17 | Efficient and stable polymer solar cells with solution-processed molybdenum oxide interfacial layer. Journal of Materials Chemistry A, 2013, 1, 657-664. | 5.2 | 126 |
| 18 | Branched Poly(thienylene vinylene)s with Absorption Spectra Covering the Whole Visible Region. Macromolecules, 2006, 39, 4657-4662. | 2.2 | 125 |

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|----|---|------|-----------|
| 19 | Morphology Engineering for Highâ€Performance and Multicolored Perovskite Lightâ€Emitting Diodes with Simple Device Structures. Small, 2016, 12, 4412-4420. | 5.2 | 125 |
| 20 | Efficient all-polymer solar cells based on blend of tris(thienylenevinylene)-substituted polythiophene and poly[perylene diimide- <i>alt</i> -bis(dithienothiophene)]. Applied Physics Letters, 2008, 93, . | 1.5 | 123 |
| 21 | Dihydronaphthyl-based [60]fullerene bisadducts for efficient and stable polymer solar cells. Chemical Communications, 2012, 48, 425-427. | 2.2 | 122 |
| 22 | Manipulating the Tradeâ€off Between Quantum Yield and Electrical Conductivity for Highâ€Brightness Quasiâ€2D Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2018, 28, 1804187. | 7.8 | 113 |
| 23 | Highly Efficient and Thermally Stable Polymer Solar Cells with Dihydronaphthylâ€Based [70]Fullerene Bisadduct Derivative as the Acceptor. Advanced Functional Materials, 2012, 22, 2187-2193. | 7.8 | 104 |
| 24 | Effects of Fullerene Bisadduct Regioisomers on Photovoltaic Performance. Advanced Functional Materials, 2014, 24, 158-163. | 7.8 | 104 |
| 25 | The growth of a CH ₃ NH ₃ PbI ₃ thin film using simplified close space sublimation for efficient and large dimensional perovskite solar cells. Energy and Environmental Science, 2016, 9, 1486-1494. | 15.6 | 104 |
| 26 | Efficient perovskite/fullerene planar heterojunction solar cells with enhanced charge extraction and suppressed charge recombination. Nanoscale, 2015, 7, 9771-9778. | 2.8 | 102 |
| 27 | A Hyperbranched Conjugated Polymer as the Cathode Interlayer for Highâ€Performance Polymer Solar Cells. Advanced Materials, 2013, 25, 6889-6894. | 11.1 | 101 |
| 28 | Efficient and Stable Pure Green All-Inorganic Perovskite CsPbBr ₃ Light-Emitting Diodes with a Solution-Processed NiO _{<i>x</i>} Interlayer. Journal of Physical Chemistry C, 2017, 121, 28132-28138. | 1.5 | 100 |
| 29 | Efficient Two-Dimensional Tin Halide Perovskite Light-Emitting Diodes via a Spacer Cation Substitution Strategy. Journal of Physical Chemistry Letters, 2020, 11, 1120-1127. | 2.1 | 97 |
| 30 | Synthesis of highly fluorescent InP/ZnS small-core/thick-shell tetrahedral-shaped quantum dots for blue light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 8243-8249. | 2.7 | 93 |
| 31 | Synthesis and Photovoltaic Properties of a Donorâ^'Acceptor Double-Cable Polythiophene with High Content of C60Pendant. Macromolecules, 2007, 40, 1868-1873. | 2.2 | 92 |
| 32 | Optical–Electrical–Chemical Engineering of PEDOT:PSS by Incorporation of Hydrophobic Nafion for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 3902-3911. | 4.0 | 89 |
| 33 | Molecular Design toward Efficient Polymer Solar Cells with High Polymer Content. Journal of the American Chemical Society, 2013, 135, 8464-8467. | 6.6 | 86 |
| 34 | Two-dimensional organic-inorganic hybrid perovskite: from material properties to device applications. Science China Materials, 2018, 61, 1257-1277. | 3.5 | 84 |
| 35 | Achieving Balanced Charge Injection of Blue Quantum Dot Light-Emitting Diodes through Transport Layer Doping Strategies. Journal of Physical Chemistry Letters, 2019, 10, 960-965. | 2.1 | 84 |
| 36 | Interfacial engineering and optical coupling for multicolored semitransparent inverted organic photovoltaics with a record efficiency of over 12%. Journal of Materials Chemistry A, 2019, 7, 15887-15894. | 5.2 | 83 |

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|----|---|------|-----------|
| 37 | Synthesis, Hole Mobility, and Photovoltaic Properties of Cross-Linked Polythiophenes with Vinyleneâ^'Terthiopheneâ^'Vinylene as Conjugated Bridge. Macromolecules, 2007, 40, 1831-1837. | 2.2 | 81 |
| 38 | Synthesis of New Conjugated Polyfluorene Derivatives Bearing Triphenylamine Moiety through a Vinylene Bridge and Their Stable Blue Electroluminescence. Chemistry of Materials, 2006, 18, 1053-1061. | 3.2 | 77 |
| 39 | [6,6]â€Phenyl ₆₁ â€Butyric Acid Dimethylamino Ester as a Cathode Buffer Layer for Highâ€Performance Polymer Solar Cells. Advanced Energy Materials, 2013, 3, 1569-1574. | 10.2 | 77 |
| 40 | High-Performance Polymer Solar Cells with Solution-Processed and Environmentally Friendly CuO _{<i>x</i>} Anode Buffer Layer. ACS Applied Materials & Interfaces, 2013, 5, 10658-10664. | 4.0 | 77 |
| 41 | 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. ACS Applied Materials & Interfaces, 2017, 9, 10983-10991. | 4.0 | 76 |
| 42 | Green-solvent-processable strategies for achieving large-scale manufacture of organic photovoltaics. Journal of Materials Chemistry A, 2019, 7, 22826-22847. | 5.2 | 76 |
| 43 | Multifarious Chiral Nanoarchitectures Serving as Handed-Selective Fluorescence Filters for Generating Full-Color Circularly Polarized Luminescence. ACS Nano, 2020, 14, 3208-3218. | 7.3 | 76 |
| 44 | Solution-processed vanadium oxide as a hole collection layer on an ITO electrode for high-performance polymer solar cells. Physical Chemistry Chemical Physics, 2012, 14, 14589. | 1.3 | 75 |
| 45 | Solution-processed nickel acetate as hole collection layer for polymer solar cells. Physical Chemistry Chemical Physics, 2012, 14, 14217. | 1.3 | 75 |
| 46 | Enhancing the crystallinity of HC(NH2)2PbI3 film by incorporating methylammonium halide intermediate for efficient and stable perovskite solar cells. Nano Energy, 2017, 40, 248-257. | 8.2 | 72 |
| 47 | Solutionâ€Processed Rhenium Oxide: A Versatile Anode Buffer Layer for High Performance Polymer Solar Cells with Enhanced Light Harvest. Advanced Energy Materials, 2014, 4, 1300884. | 10.2 | 71 |
| 48 | Effect of side-chain end groups on the optical, electrochemical, and photovoltaic properties of side-chain conjugated polythiophenes. Journal of Polymer Science Part A, 2006, 44, 4916-4922. | 2.5 | 70 |
| 49 | Diverse applications of MoO ₃ for high performance organic photovoltaics: fundamentals, processes and optimization strategies. Journal of Materials Chemistry A, 2020, 8, 978-1009. | 5.2 | 70 |
| 50 | Effect of Branched Conjugation Structure on the Optical, Electrochemical, Hole Mobility, and Photovoltaic Properties of Polythiophenes. Journal of Physical Chemistry B, 2006, 110, 26062-26067. | 1.2 | 69 |
| 51 | Novel twoâ€dimensional donor–acceptor conjugated polymers containing quinoxaline units: Synthesis, characterization, and photovoltaic properties. Journal of Polymer Science Part A, 2008, 46, 4038-4049. | 2.5 | 69 |
| 52 | Significant improvement of photovoltaic performance by embedding thiophene in solution-processed star-shaped TPA-DPP backbone. Journal of Materials Chemistry A, 2013, 1, 5747. | 5.2 | 69 |
| 53 | Influence of π-linker on triphenylamine-based hole transporting materials in perovskite solar cells. Dyes and Pigments, 2017, 139, 129-135. | 2.0 | 69 |
| 54 | White light from polymer light-emitting diodes: Utilization of fluorenone defects and exciplex. Applied Physics Letters, 2006, 88, 163510. | 1.5 | 68 |

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| 55 | High Performance Quasiâ€2D Perovskite Skyâ€Blue Lightâ€Emitting Diodes Using a Dualâ€Ligand Strategy. Small, 2020, 16, e2002940. | 5.2 | 65 |
| 56 | Performance improvement of polymer solar cells by using a solution processible titanium chelate as cathode buffer layer. Applied Physics Letters, 2007, 91, 023509. | 1.5 | 64 |
| 57 | Efficient polymer solar cells with a solution-processed and thermal annealing-free RuO ₂ anode buffer layer. Journal of Materials Chemistry A, 2014, 2, 1318-1324. | 5.2 | 64 |
| 58 | Linking Polythiophene Chains Through Conjugated Bridges: A Way to Improve Charge Transport in Polymer Solar Cells. Macromolecular Rapid Communications, 2006, 27, 793-798. | 2.0 | 59 |
| 59 | Morphology and properties of soy protein plastics modified with chitin. Journal of Applied Polymer Science, 2003, 90, 3676-3682. | 1.3 | 57 |
| 60 | Material and device engineering for high-performance blue quantum dot light-emitting diodes. Nanoscale, 2020, 12, 13186-13224. | 2.8 | 57 |
| 61 | Semitransparent solar cells with over 12% efficiency based on a new low bandgap fluorinated small molecule acceptor. Materials Chemistry Frontiers, 2019, 3, 2483-2490. | 3.2 | 55 |
| 62 | Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2010535. | 7.8 | 55 |
| 63 | Realization of high performance for PM6:Y6 based organic photovoltaic cells. Journal of Energy Chemistry, 2021, 61, 29-46. | 7.1 | 54 |
| 64 | Red Phosphorescent Carbon Quantum Dot Organic Framework-Based Electroluminescent Light-Emitting Diodes Exceeding 5% External Quantum Efficiency. Journal of the American Chemical Society, 2021, 143, 18941-18951. | 6.6 | 54 |
| 65 | Fine-tuning device performances of small molecule solar cells via the more polarized DPP-attached donor units. Physical Chemistry Chemical Physics, 2012, 14, 14238. | 1.3 | 53 |
| 66 | Multifunctional pâ€Type Carbon Quantum Dots: a Novel Hole Injection Layer for Highâ€Performance Perovskite Lightâ€Emitting Diodes with Significantly Enhanced Stability. Advanced Optical Materials, 2019, 7, 1901299. | 3.6 | 52 |
| 67 | High-Efficiency Fluorescence through Bioinspired Supramolecular Self-Assembly. ACS Nano, 2020, 14, 2798-2807. | 7.3 | 49 |
| 68 | Multiâ€Functional Solid Additive Induced Favorable Vertical Phase Separation and Ordered Molecular Packing for Highly Efficient Layerâ€byâ€Layer Organic Solar Cells. Small, 2021, 17, e2103497. | 5.2 | 49 |
| 69 | Efficient interface modification <i>via</i> multi-site coordination for improved efficiency and stability in organic solar cells. Energy and Environmental Science, 2022, 15, 822-829. | 15.6 | 49 |
| 70 | Narrowâ€bandwidth emissive carbon dots: A rising star in the fluorescent material family. , 2022, 4, 88-114. | | 49 |
| 71 | Efficient lead acetate sourced planar heterojunction perovskite solar cells with enhanced substrate coverage via one-step spin-coating. Organic Electronics, 2016, 33, 194-200. | 1.4 | 48 |
| 72 | Improvement of the power conversion efficiency and long term stability of polymer solar cells by incorporation of amphiphilic Nafion doped PEDOT-PSS as a hole extraction layer. Journal of Materials Chemistry A, 2015, 3, 18727-18734. | 5.2 | 46 |

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| 73 | A co-crystallization induced surface modification strategy with cyanuric acid modulates the bandgap emission of carbon dots. Nanoscale, 2020, 12, 10987-10993. | 2.8 | 46 |
| 74 | Tetraphenylmethaneâ€Arylamine Holeâ€Transporting Materials for Perovskite Solar Cells. ChemSusChem, 2017, 10, 968-975. | 3.6 | 45 |
| 75 | Anthracene–arylamine hole transporting materials for perovskite solar cells. Chemical Communications, 2017, 53, 9558-9561. | 2.2 | 45 |
| 76 | Thiophene–Arylamine Holeâ€Transporting Materials in Perovskite Solar Cells: Substitution Position Effect. Energy Technology, 2017, 5, 1788-1794. | 1.8 | 44 |
| 77 | Colloidal nanocrystal-based light-emitting diodes fabricated on plastic toward flexible quantum dot optoelectronics. Journal of Applied Physics, 2009, 105, . | 1.1 | 43 |
| 78 | Molecular Engineering of Simple Benzene–Arylamine Hole-Transporting Materials for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 27657-27663. | 4.0 | 42 |
| 79 | All-solution-processed perovskite light-emitting diodes with all metal oxide transport layers. Chemical Communications, 2018, 54, 13283-13286. | 2.2 | 42 |
| 80 | Low-temperature solution-processed vanadium oxide as hole transport layer for efficient and stable perovskite solar cells. Physical Chemistry Chemical Physics, 2018, 20, 21746-21754. | 1.3 | 40 |
| 81 | Pure Blue and Highly Luminescent Quantumâ€Dot Lightâ€Emitting Diodes with Enhanced Electron Injection and Exciton Confinement via Partially Oxidized Aluminum Cathode. Advanced Optical Materials, 2017, 5, 1700035. | 3.6 | 39 |
| 82 | Printable SnO2 cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. Science China Chemistry, 2020, 63, 957-965. | 4.2 | 38 |
| 83 | Engineering the vertical concentration distribution within the polymer:fullerene blends for high performance inverted polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 2319-2327. | 5.2 | 37 |
| 84 | New Insights into the Formation and Colorâ€īunable Optical Properties of Multinary Cuâ€Inâ€Znâ€Based Chalcogenide Semiconductor Nanocrystals. Advanced Optical Materials, 2018, 6, 1701389. | 3.6 | 37 |
| 85 | Double-Layer Structured WPLEDs Based on Three Primary RGB Luminescent Polymers:  Toward High Luminous Efficiency, Color Purity, and Stability. Journal of Physical Chemistry C, 2007, 111, 6862-6867. | 1.5 | 36 |
| 86 | Integration of planar and bulk heterojunctions in polymer/nanocrystal hybrid photovoltaic cells. Applied Physics Letters, 2009, 95, 063510. | 1.5 | 35 |
| 87 | A comparison of n-type copolymers based on cyclopentadithiophene and naphthalene diimide/perylene diimides for all-polymer solar cell applications. Polymer Chemistry, 2015, 6, 7594-7602. | 1.9 | 35 |
| 88 | High Performance Tandem Solar Cells with Inorganic Perovskite and Organic Conjugated Molecules to Realize Complementary Absorption. Journal of Physical Chemistry Letters, 2020, 11, 9596-9604. | 2.1 | 35 |
| 89 | Finding the Lost Open-Circuit Voltage in Polymer Solar Cells by UV-Ozone Treatment of the Nickel Acetate Anode Buffer Layer. ACS Applied Materials & Interfaces, 2014, 6, 9458-9465. | 4.0 | 34 |
| 90 | Highâ€Performance Blue Quantum Dot Lightâ€Emitting Diodes with Balanced Charge Injection. Advanced Electronic Materials, 2019, 5, 1800794. | 2.6 | 34 |

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| 91 | Microwave-assisted <i>in situ</i> large scale synthesis of a carbon dots@g-C ₃ N ₄ composite phosphor for white light-emitting devices. Materials Chemistry Frontiers, 2020, 4, 517-523. | 3.2 | 34 |
| 92 | pâ€Type Carbon Dots for Effective Surface Optimization for Nearâ€Recordâ€Efficiency CsPbl ₂ Br Solar Cells. Small, 2021, 17, e2102272. | 5.2 | 34 |
| 93 | Synthesis, hole mobility, and photovoltaic properties of two alternating poly[3-(hex-1-enyl)thiophene-co-thiophene]s. Journal of Polymer Science Part A, 2007, 45, 629-638. | 2.5 | 33 |
| 94 | Trapping Light with a Nanostructured CeO _x /Al Back Electrode for Highâ€Performance Polymer Solar Cells. Advanced Materials Interfaces, 2014, 1, 1400197. | 1.9 | 33 |
| 95 | Efficient perovskite/organic integrated solar cells with extended photoresponse to 930 nm and enhanced near-infrared external quantum efficiency of over 50%. Nanoscale, 2018, 10, 3245-3253. | 2.8 | 33 |
| 96 | Recent advances and comprehensive insights on nickel oxide in emerging optoelectronic devices. Sustainable Energy and Fuels, 2020, 4, 4415-4458. | 2.5 | 33 |
| 97 | Stable Binary Complementary White Light-Emitting Diodes Based on Quantum-Dot/Polymer-Bilayer Structures. IEEE Photonics Technology Letters, 2008, 20, 1998-2000. | 1.3 | 32 |
| 98 | Highly Efficient and Super Stable Fullâ€Color Quantum Dots Lightâ€Emitting Diodes with Solutionâ€Processed Allâ€Inorganic Charge Transport Layers. Small, 2021, 17, e2007363. | 5.2 | 32 |
| 99 | Alcohol soluble titanium(IV) oxide bis(2,4-pentanedionate) as electron collection layer for efficient inverted polymer solar cells. Organic Electronics, 2012, 13, 2429-2435. | 1.4 | 31 |
| 100 | Extending absorption of near-infrared wavelength range for high efficiency CIGS solar cell via adjusting energy band. Current Applied Physics, 2018, 18, 484-490. | 1.1 | 31 |
| 101 | Enhancing the electron blocking ability of n-type MoO3 by doping with p-type NiO for efficient nonfullerene polymer solar cells. Organic Electronics, 2019, 68, 168-175. | 1.4 | 31 |
| 102 | Lead acetate produced from lead-acid battery for efficient perovskite solar cells. Nano Energy, 2020, 69, 104380. | 8.2 | 30 |
| 103 | Analysis of Electrode Configuration Effects on Mass Transfer and Organic Redox Flow Battery Performance. Industrial & Engineering Chemistry Research, 2022, 61, 2915-2925. | 1.8 | 30 |
| 104 | Synthesis, electroluminescence, and photovoltaic properties of dendronized poly(p-phenylene) Tj ETQq0 0 0 rgB1 | - /Qyerlock | 10 Tf 50 22 |
| 105 | Solution-Processed and Low-Temperature Annealed CrO _{<i>x</i>} as Anode Buffer Layer for Efficient Polymer Solar Cells. Journal of Physical Chemistry C, 2014, 118, 9309-9317. | 1.5 | 29 |
| 106 | Tandem structure: a breakthrough in power conversion efficiency for highly efficient polymer solar cells. Sustainable Energy and Fuels, 2019, 3, 910-934. | 2.5 | 28 |
| 107 | Effects of Alkoxy Chain Length in Alkoxy-Substituted Dihydronaphthyl-Based [60]Fullerene Bisadduct Acceptors on Their Photovoltaic Properties. ACS Applied Materials & Interfaces, 2012, 4, 5966-5973. | 4.0 | 27 |
| 108 | Efficient planar perovskite solar cells prepared via a low-pressure vapor-assisted solution process with fullerene/TiO ₂ as an electron collection bilayer. RSC Advances, 2016, 6, 78585-78594. | 1.7 | 27 |

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| 109 | High performance polymer solar cells with electron extraction and light-trapping dual functional cathode interfacial layer. Nano Energy, 2017, 31, 201-209. | 8.2 | 27 |
| 110 | Vertically Oriented Bil ₃ Template Featured Bil ₃ /Polymer Heterojunction for High Photocurrent and Long-Term Stable Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 32509-32516. | 4.0 | 27 |
| 111 | Multifunctional bipyramid-Au@ZnO core–shell nanoparticles as a cathode buffer layer for efficient non-fullerene inverted polymer solar cells with improved near-infrared photoresponse. Journal of Materials Chemistry A, 2019, 7, 2667-2676. | 5.2 | 27 |
| 112 | Efficient quantum dot light-emitting diodes with solution-processable molybdenum oxide as the anode buffer layer. Nanotechnology, 2013, 24, 175201. | 1.3 | 26 |
| 113 | Diketopyrrolopyrrole or benzodithiophene-arylamine small-molecule hole transporting materials for stable perovskite solar cells. RSC Advances, 2016, 6, 87454-87460. | 1.7 | 26 |
| 114 | Formulation engineering for optimizing ternary electron acceptors exemplified by isomeric PC ₇₁ BM in planar perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 18776-18782. | 5.2 | 26 |
| 115 | Engineering the interconnecting layer for efficient inverted tandem polymer solar cells with absorption complementary fullerene and nonfullerene acceptors. Solar Energy Materials and Solar Cells, 2018, 180, 1-9. | 3.0 | 26 |
| 116 | Recent advances in perovskite/organic integrated solar cells. Rare Metals, 2021, 40, 2763-2777. | 3.6 | 26 |
| 117 | Layerâ€byâ€layered organic solar cells: Morphology optimizing strategies and processing techniques. Aggregate, 2022, 3, e107. | 5.2 | 26 |
| 118 | Electroluminescence and photovoltaic properties of poly(<i>p</i> â€phenylene vinylene) derivatives with dendritic pendants. Journal of Applied Polymer Science, 2008, 107, 514-521. | 1.3 | 25 |
| 119 | Construction of Planar and Bulk Integrated Heterojunction Polymer Solar Cells Using Cross-Linkable D-A Copolymer. ACS Applied Materials & Interfaces, 2013, 5, 6591-6597. | 4.0 | 25 |
| 120 | Enhancing the Performance of Blue Quantum Dots Lightâ€Emitting Diodes through Interface Engineering with Deoxyribonucleic Acid. Advanced Optical Materials, 2018, 6, 1800578. | 3.6 | 25 |
| 121 | Expanding the Light Harvesting of CsPbl ₂ Br to Near Infrared by Integrating with Organic Bulk Heterojunction for Efficient and Stable Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 37991-37998. | 4.0 | 25 |
| 122 | Stabilization of the film morphology in polymer: Fullerene heterojunction solar cells with photocrosslinkable bromineâ€functionalized lowâ€bandgap copolymers. Journal of Polymer Science Part A, 2013, 51, 3123-3131. | 2.5 | 24 |
| 123 | Large Optical Nonlinearity Induced by Singlet Fission in Pentacene Films. Angewandte Chemie - International Edition, 2015, 54, 6222-6226. | 7.2 | 24 |
| 124 | Optimization of the Energy Level Alignment between the Photoactive Layer and the Cathode Contact Utilizing Solution-Processed Hafnium Acetylacetonate as Buffer Layer for Efficient Polymer Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 432-441. | 4.0 | 24 |
| 125 | Decahedral-shaped Au nanoparticles as plasmonic centers for high performance polymer solar cells. Organic Electronics, 2017, 43, 33-40. | 1.4 | 24 |
| 126 | Biuret Induced Tinâ€Anchoring and Crystallizationâ€Regulating for Efficient Leadâ€Free Tin Halide Perovskite Lightâ€Emitting Diodes. Small, 2022, 18, e2200036. | 5.2 | 24 |

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| 127 | Achieving mixed halide perovskite via halogen exchange during vapor-assisted solution process for efficient and stable perovskite solar cells. Organic Electronics, 2017, 50, 33-42. | 1.4 | 23 |
| 128 | Incorporating an Electrode Modification Layer with a Vertical Phase Separated Photoactive Layer for Efficient and Stable Inverted Nonfullerene Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 43871-43879. | 4.0 | 23 |
| 129 | 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 & Interfaces, 2017, 9, 41937-41944. | 4.0 | 23 |
| 130 | Ternary blend strategy in benzotriazole-based organic photovoltaics for indoor application. Green Energy and Environment, 2021, 6, 920-928. | 4.7 | 23 |
| 131 | Perovskite Passivation Strategies for Efficient and Stable Solar Cells. Solar Rrl, 2021, 5, . | 3.1 | 23 |
| 132 | Recent advances of organometallic complexes in emerging photovoltaics. Journal of Polymer Science, 2022, 60, 865-916. | 2.0 | 23 |
| 133 | Enhancing charge transport in an organic photoactive layer <i>via</i> vertical component engineering for efficient perovskite/organic integrated solar cells. Nanoscale, 2019, 11, 4035-4043. | 2.8 | 22 |
| 134 | Novel cathode buffer layer of Al(acac) ₃ enables efficient, large area and stable semi-transparent organic solar cells. Materials Chemistry Frontiers, 2020, 4, 2072-2080. | 3.2 | 22 |
| 135 | Constructing Desired Vertical Component Distribution Within a PBDB-T:ITIC-M Photoactive Layer via Fine-Tuning the Surface Free Energy of a Titanium Chelate Cathode Buffer Layer. Frontiers in Chemistry, 2018, 6, 292. | 1.8 | 21 |
| 136 | Intramolecular hydrogen bonds induced high solubility for efficient and stable anthraquinone based neutral aqueous organic redox flow batteries. Journal of Power Sources, 2021, 498, 229896. | 4.0 | 21 |
| 137 | Improved performance of polymer solar cells based on P3HT and ICBA using alcohol soluble titanium chelate as electron collection layer. Organic Electronics, 2013, 14, 845-851. | 1.4 | 20 |
| 138 | Synergy of a titanium chelate electron collection layer and a vertical phase separated photoactive layer for efficient inverted polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 7257-7264. | 5.2 | 20 |
| 139 | A pentacyclic <i>S</i> , <i>N</i> -heteroacene based electron acceptor with strong near-infrared absorption for efficient organic solar cells. Chemical Communications, 2019, 55, 7057-7060. | 2.2 | 20 |
| 140 | Deep-blue carbon dots offer high colour purity. Nature Photonics, 2020, 14, 130-131. | 15.6 | 20 |
| 141 | Composition-limited spectral response of hybrid photovoltaic cells containing infrared PbSe nanocrystals. Journal of Applied Physics, 2008, 104, 044306. | 1.1 | 19 |
| 142 | ITO electrode/photoactive layer interface engineering for efficient inverted polymer solar cells based on P3HT and PCBM using a solution-processed titanium chelate. Journal Physics D: Applied Physics, 2012, 45, 285102. | 1.3 | 19 |
| 143 | Nonlinear Density Dependence of Singlet Fission Rate in Tetracene Films. Journal of Physical Chemistry Letters, 2014, 5, 3462-3467. | 2.1 | 19 |
| 144 | Solutionâ€Processed Titanium Chelate Used as Both Electrode Modification Layer and Intermediate Layer for Efficient Inverted Tandem Polymer Solar Cells. Chinese Journal of Chemistry, 2018, 36, 194-198. | 2.6 | 19 |

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