

Weihua Tang

List of Publications by Year in descending order

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236
papers

11,650
citations

26567

56
h-index

38300

95
g-index

243
all docs

243
docs citations

243
times ranked

11451
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Versatile ternary organic solar cells: a critical review. <i>Energy and Environmental Science</i> , 2016, 9, 281-322. | 15.6 | 585 |
| 2 | Dithieno[3,2-b:6',5'-d]pyrrol Fused Nonfullerene Acceptors Enabling Over 13% Efficiency for Organic Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1707150. | 11.1 | 373 |
| 3 | Recent progress in the design of narrow bandgap conjugated polymers for high-efficiency organic solar cells. <i>Progress in Polymer Science</i> , 2012, 37, 1292-1331. | 11.8 | 248 |
| 4 | Toward ideal hole transport materials: a review on recent progress in dopant-free hole transport materials for fabricating efficient and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2020, 13, 4057-4086. | 15.6 | 241 |
| 5 | Ternary nonfullerene polymer solar cells with efficiency >13.7% by integrating the advantages of the materials and two binary cells. <i>Energy and Environmental Science</i> , 2018, 11, 2134-2141. | 15.6 | 223 |
| 6 | Graphene/polypyrrole intercalating nanocomposites as supercapacitors electrode. <i>Electrochimica Acta</i> , 2013, 112, 44-52. | 2.6 | 220 |
| 7 | MnO ₂ Nanorods Intercalating Graphene Oxide/Polyaniline Ternary Composites for Robust High-Performance Supercapacitors. <i>Scientific Reports</i> , 2014, 4, 4824. | 1.6 | 215 |
| 8 | Recent development of the inverted configuration organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1785-1799. | 3.0 | 210 |
| 9 | Bacterial Cellulose Nanofiber-Supported Polyaniline Nanocomposites with Flake-Shaped Morphology as Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13013-13019. | 1.5 | 208 |
| 10 | Highly efficient ternary polymer solar cells by optimizing photon harvesting and charge carrier transport. <i>Nano Energy</i> , 2016, 22, 241-254. | 8.2 | 196 |
| 11 | Efficient Ternary Polymer Solar Cells with Two Well-Compatible Donors and One Ultranarrow Bandgap Nonfullerene Acceptor. <i>Advanced Energy Materials</i> , 2018, 8, 1702854. | 10.2 | 195 |
| 12 | A universal layer-by-layer solution-processing approach for efficient non-fullerene organic solar cells. <i>Energy and Environmental Science</i> , 2019, 12, 384-395. | 15.6 | 193 |
| 13 | Core-shell structured bacterial cellulose/polypyrrole nanocomposites with excellent conductivity as supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 578-584. | 5.2 | 175 |
| 14 | Nematic liquid crystal materials as a morphology regulator for ternary small molecule solar cells with power conversion efficiency exceeding 10%. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3589-3598. | 5.2 | 173 |
| 15 | Facile synthesis of mono-6-amino-6-deoxy- α -, β -, γ -cyclodextrin hydrochlorides for molecular recognition, chiral separation and drug delivery. <i>Nature Protocols</i> , 2008, 3, 691-697. | 5.5 | 169 |
| 16 | Three-Dimensional, Chemically Bonded Polypyrrole/Bacterial Cellulose/Graphene Composites for High-Performance Supercapacitors. <i>Chemistry of Materials</i> , 2015, 27, 7034-7041. | 3.2 | 153 |
| 17 | Biotemplated preparation of CdS nanoparticles/bacterial cellulose hybrid nanofibers for photocatalysis application. <i>Journal of Hazardous Materials</i> , 2011, 189, 377-383. | 6.5 | 145 |
| 18 | A multi-objective optimization-based layer-by-layer blade-coating approach for organic solar cells: rational control of vertical stratification for high performance. <i>Energy and Environmental Science</i> , 2019, 12, 3118-3132. | 15.6 | 142 |

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|----|---|-----|-----------|
| 19 | The influence of fermentation conditions and post-treatment methods on porosity of bacterial cellulose membrane. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 125-131. | 1.7 | 130 |
| 20 | Stable and efficient CdS/Sb ₂ Se ₃ solar cells prepared by scalable close space sublimation. <i>Nano Energy</i> , 2018, 49, 346-353. | 8.2 | 130 |
| 21 | Molecular engineering of central fused-ring cores of non-fullerene acceptors for high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4313-4333. | 5.2 | 122 |
| 22 | Conformation Locking on Fused-Ring Electron Acceptor for High-Performance Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1705095. | 7.8 | 120 |
| 23 | Surface ligands engineering of semiconductor quantum dots for chemosensory and biological applications. <i>Materials Today</i> , 2017, 20, 360-376. | 8.3 | 118 |
| 24 | Simultaneous Improvement in Short Circuit Current, Open Circuit Voltage, and Fill Factor of Polymer Solar Cells through Ternary Strategy. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3691-3698. | 4.0 | 114 |
| 25 | Dithieno[3,2-b:2',3'-d]pyrrole-Cored Hole Transport Material Enabling Over 21% Efficiency Dopant-Free Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1904300. | 7.8 | 114 |
| 26 | Sandwich-structured MnO ₂ /polypyrrole/reduced graphene oxide hybrid composites for high-performance supercapacitors. <i>RSC Advances</i> , 2014, 4, 9898-9904. | 1.7 | 113 |
| 27 | Conjugated Copolymers Based on Fluorene-Thieno[3,2-b]thiophene for Light-Emitting Diodes and Photovoltaic Cells. <i>Macromolecules</i> , 2007, 40, 6164-6171. | 2.2 | 108 |
| 28 | Dithieno[3,2-b:2',3'-d]pyrrole Cored p-Type Semiconductors Enabling 20% Efficiency Dopant-Free Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13717-13721. | 7.2 | 108 |
| 29 | Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25088-25101. | 5.2 | 107 |
| 30 | Recent advances in pharmaceutical separations with supercritical fluid chromatography using chiral stationary phases. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 37, 83-100. | 5.8 | 104 |
| 31 | Nonfullerene Acceptor for Organic Solar Cells with Chlorination on Dithieno[3,2-b:2',3'-d]pyrrole Fused-Ring. <i>ACS Energy Letters</i> , 2019, 4, 763-770. | 8.8 | 102 |
| 32 | Influence of PC60BM or PC70BM as electron acceptor on the performance of polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 97, 71-77. | 3.0 | 95 |
| 33 | Bacteria Cellulose Nanofibers Supported Palladium(0) Nanocomposite and Its Catalysis Evaluation in Heck Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5743-5748. | 1.8 | 93 |
| 34 | Facile synthesis of bacterial cellulose fibres covalently intercalated with graphene oxide by one-step cross-linking for robust supercapacitors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1011-1017. | 2.7 | 93 |
| 35 | Improved Efficiency of Bulk Heterojunction Polymer Solar Cells by Doping Low-Bandgap Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6537-6544. | 4.0 | 91 |
| 36 | Layered assembly of NiMn-layered double hydroxide on graphene oxide for enhanced non-enzymatic sugars and hydrogen peroxide detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 408-417. | 4.0 | 90 |

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|----|---|------|-----------|
| 37 | One-step facile synthesis of a simple carbazole-cored hole transport material for high-performance perovskite solar cells. <i>Nano Energy</i> , 2017, 40, 163-169. | 8.2 | 89 |
| 38 | Growth of Ni Mn layered double hydroxide and polypyrrole on bacterial cellulose nanofibers for efficient supercapacitors. <i>Electrochimica Acta</i> , 2019, 295, 82-91. | 2.6 | 89 |
| 39 | Efficient organic ternary solar cells with the third component as energy acceptor. <i>Nano Energy</i> , 2016, 26, 180-191. | 8.2 | 88 |
| 40 | High performance one-for-all phototheranostics: NIR-II fluorescence imaging guided mitochondria-targeting phototherapy with a single-dose injection and 808nm laser irradiation. <i>Biomaterials</i> , 2020, 231, 119671. | 5.7 | 87 |
| 41 | Recent development of cationic cyclodextrins for chiral separation. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 65, 22-29. | 5.8 | 86 |
| 42 | MOF-derived Co ₃ O ₄ nanosheets rich in oxygen vacancies for efficient all-solid-state symmetric supercapacitors. <i>Electrochimica Acta</i> , 2019, 328, 135103. | 2.6 | 86 |
| 43 | Key issues and recent progress of high efficient organic light-emitting diodes. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2013, 17, 69-104. | 5.6 | 83 |
| 44 | Dithienothiophene (DTT)-Based Dyes for Dye-Sensitized Solar Cells: Synthesis of 2,6-Dibromo-DTT. <i>Journal of Organic Chemistry</i> , 2011, 76, 4088-4093. | 1.7 | 81 |
| 45 | High performance non-fullerene polymer solar cells based on PTB7-Th as the electron donor with 10.42% efficiency. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2549-2554. | 5.2 | 73 |
| 46 | Efficient small molecular ternary solar cells by synergistically optimized photon harvesting and phase separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16653-16662. | 5.2 | 72 |
| 47 | Characterization of bacteriostatic sausage casing: A composite of bacterial cellulose embedded with ϵ -polylysine. <i>Food Science and Biotechnology</i> , 2010, 19, 1479-1484. | 1.2 | 70 |
| 48 | 9.7%-efficient Sb ₂ (S,Se) ₃ solar cells with a dithieno[3,2- <i>b</i> : <i>i</i>]:2,3-dipyrrrole-cored hole transporting material. <i>Energy and Environmental Science</i> , 2021, 14, 359-364. | 15.6 | 70 |
| 49 | High Efficiency Nonfullerene Organic Solar Cells with a Parallel Tandem Configuration. <i>Advanced Materials</i> , 2017, 29, 1702547. | 11.1 | 68 |
| 50 | Immobilizing haemoglobin on gold/graphene-chitosan nanocomposite as efficient hydrogen peroxide biosensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 197, 164-171. | 4.0 | 67 |
| 51 | Tuning of the conformation of asymmetric nonfullerene acceptors for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22279-22286. | 5.2 | 67 |
| 52 | Cyclodextrin capped CdTe quantum dots as versatile fluorescence sensors for nitrophenol isomers. <i>Nanoscale</i> , 2015, 7, 19540-19546. | 2.8 | 66 |
| 53 | Oxygen vacancy-engineered Fe ₂ O ₃ nanoarrays as free-standing electrodes for flexible asymmetric supercapacitors. <i>Nanoscale</i> , 2019, 11, 12477-12483. | 2.8 | 64 |
| 54 | Recent development of conjugated oligomers for high-efficiency bulk-heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1963-1979. | 3.0 | 62 |

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|----|---|-----|-----------|
| 55 | Synthesis of cationic single-isomer cyclodextrins for the chiral separation of amino acids and anionic pharmaceuticals. <i>Nature Protocols</i> , 2007, 2, 3195-3200. | 5.5 | 60 |
| 56 | High-performance alloy model-based ternary small molecule solar cells. <i>Nano Energy</i> , 2016, 30, 276-282. | 8.2 | 60 |
| 57 | Binary hole transport materials blending to linearly tune HOMO level for high efficiency and stable perovskite solar cells. <i>Nano Energy</i> , 2018, 51, 680-687. | 8.2 | 59 |
| 58 | Over 15.7% Efficiency of Ternary Organic Solar Cells by Employing Two Compatible Acceptors with Similar LUMO Levels. <i>Small</i> , 2020, 16, e2000441. | 5.2 | 59 |
| 59 | Monosubstituted positively charged cyclodextrins: Synthesis and applications in chiral separation. <i>Journal of Separation Science</i> , 2008, 31, 3246-3256. | 1.3 | 57 |
| 60 | Retarding the Crystallization of a Nonfullerene Electron Acceptor for High-Performance Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1807662. | 7.8 | 57 |
| 61 | Molecular Orientation Unified Nonfullerene Acceptor Enabling 14% Efficiency As-Cast Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1903269. | 7.8 | 56 |
| 62 | Synthesis and application of single-isomer 6-mono(alkylimidazolium)- β -cyclodextrins as chiral selectors in chiral capillary electrophoresis. <i>Electrophoresis</i> , 2005, 26, 3839-3848. | 1.3 | 55 |
| 63 | Metal-organic framework-templated synthesis of sulfur-doped core-shell nanoarrays and nanoporous carbon for flexible all-solid-state asymmetric supercapacitors. <i>Nanoscale</i> , 2018, 10, 15454-15461. | 2.8 | 55 |
| 64 | Poly(dithieno[3,2-b:2',3'-d]pyrrole) twisting redox pendants enabling high current durability in all-organic proton battery. <i>Energy Storage Materials</i> , 2021, 36, 1-9. | 9.5 | 54 |
| 65 | Metal-organic frameworks governed well-aligned conducting polymer/bacterial cellulose membranes with high areal capacitance. <i>Energy Storage Materials</i> , 2019, 23, 594-601. | 9.5 | 53 |
| 66 | 13.9% Efficiency Ternary Nonfullerene Organic Solar Cells Featuring Low-Structural Order. <i>ACS Energy Letters</i> , 2019, 4, 2378-2385. | 8.8 | 51 |
| 67 | Enhanced performance of polymer solar cells through sensitization by a narrow band gap polymer. <i>Solar Energy Materials and Solar Cells</i> , 2013, 118, 30-35. | 3.0 | 49 |
| 68 | Chiral separation of dansyl amino acids in capillary electrophoresis using mono-(3-methyl-imidazolium)- β -cyclodextrin chloride as selector. <i>Journal of Separation Science</i> , 2007, 30, 1343-1349. | 1.3 | 48 |
| 69 | Novel β -cyclodextrin chiral stationary phases with different length spacers for normal-phase high performance liquid chromatography enantioseparation. <i>Journal of Chromatography A</i> , 2011, 1218, 3496-3501. | 1.8 | 47 |
| 70 | TD-DFT benchmark for UV-visible spectra of fused-ring electron acceptors using global and range-separated hybrids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7864-7874. | 1.3 | 47 |
| 71 | Modification on the Indacenodithieno[3,2-b]thiophene Core to Achieve Higher Current and Reduced Energy Loss for Nonfullerene Solar Cells. <i>Chemistry of Materials</i> , 2020, 32, 1297-1307. | 3.2 | 46 |
| 72 | Synthesis of ammonium substituted β -cyclodextrins for enantioseparation of anionic analytes. <i>Tetrahedron Letters</i> , 2005, 46, 1747-1749. | 0.7 | 45 |

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|----|---|-----|-----------|
| 73 | Synthesis, characterization, and photovoltaic properties of novel conjugated copolymers derived from phenothiazines. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5266-5276. | 2.5 | 45 |
| 74 | Efficient Bulk Heterojunction Solar Cells with Poly[2,7-(9,9-dihexylfluorene)-alt-bithiophene] and 6,6-Phenyl C61 Butyric Acid Methyl Ester Blends and Their Application in Tandem Cells. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 829-837. | 4.0 | 45 |
| 75 | Covalently intercalated graphene oxide for oil/water separation. <i>Carbon</i> , 2015, 82, 264-272. | 5.4 | 45 |
| 76 | Molecular engineering of acceptors to control aggregation for optimized nonfullerene solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5458-5466. | 5.2 | 45 |
| 77 | Asymmetric simple unfused acceptor enabling over 12% efficiency organic solar cells. <i>Chemical Engineering Journal</i> , 2021, 412, 128770. | 6.6 | 45 |
| 78 | Hole Transport in Poly[2,7-(9,9-dihexylfluorene)-alt-bithiophene] and High-Efficiency Polymer Solar Cells from Its Blends with PCBM. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1467-1473. | 4.0 | 44 |
| 79 | Crystallization behavior and mechanical properties of polypropylene random copolymer/poly(ethylene octene) blends. <i>Journal of Applied Polymer Science</i> , 2011, 122, 461-468. | 1.3 | 44 |
| 80 | Cationic cyclodextrin clicked chiral stationary phase for versatile enantioseparations in high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2016, 1467, 169-177. | 1.8 | 44 |
| 81 | Design of dopant-free small molecular hole transport materials for perovskite solar cells: a viewpoint from defect passivation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1150-1178. | 5.2 | 44 |
| 82 | Cationic cyclodextrin as versatile chiral selector for enantiomeric separation in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2012, 1246, 98-102. | 1.8 | 43 |
| 83 | Novel cyclodextrin chiral stationary phases for high performance liquid chromatography enantioseparation: Effect of cyclodextrin type. <i>Journal of Chromatography A</i> , 2011, 1218, 5597-5601. | 1.8 | 42 |
| 84 | Cationic cyclodextrins chemically-bonded chiral stationary phases for high-performance liquid chromatography. <i>Analytica Chimica Acta</i> , 2012, 718, 121-129. | 2.6 | 42 |
| 85 | Juglone bonded carbon nanotubes interweaving cellulose nanofibers as self-standing membrane electrodes for flexible high energy supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 396, 125325. | 6.6 | 41 |
| 86 | Effect of alkylimidazolium substituents on enantioseparation ability of single-isomer alkylimidazolium- β -cyclodextrin derivatives in capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2007, 585, 227-233. | 2.6 | 40 |
| 87 | Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23319-23327. | 5.2 | 40 |
| 88 | 2D Side-Chain Engineered Asymmetric Acceptors Enabling Over 14% Efficiency and 75% Fill Factor Stable Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2006141. | 7.8 | 40 |
| 89 | Transforming wood as next-generation structural and functional materials for a sustainable future. <i>EcoMat</i> , 2022, 4, . | 6.8 | 40 |
| 90 | Improved permeability and selectivity in porous graphene for hydrogen purification. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25755-25759. | 1.3 | 39 |

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|-----|---|-----|-----------|
| 91 | Evaluation of perphenylcarbamated cyclodextrin clicked chiral stationary phase for enantioseparations in reversed phase high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2014, 1363, 119-127. | 1.8 | 39 |
| 92 | Boosting performance of inverted organic solar cells by using a planar coronene based electron-transporting layer. <i>Nano Energy</i> , 2017, 39, 454-460. | 8.2 | 39 |
| 93 | Manipulating Polymer Configuration to Accelerate Cation Intercalation Kinetics for High-Performance Aqueous Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 38 |
| 94 | Cyclodextrin clicked chiral stationary phases with functionalities-tuned enantioseparations in high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2015, 1406, 342-346. | 1.8 | 36 |
| 95 | An unfused-ring acceptor with high side-chain economy enabling 11.17% as-cast organic solar cells. <i>Materials Horizons</i> , 2021, 8, 1008-1016. | 6.4 | 36 |
| 96 | Synthesis and application of mono-6-ammonium-6-deoxy- β -cyclodextrin chloride as chiral selector for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2005, 1094, 187-191. | 1.8 | 35 |
| 97 | A family of single-isomer positively charged cyclodextrins as chiral selectors for capillary electrophoresis: Mono-6A-butylammonium-6A-deoxy- β -cyclodextrin tosylate. <i>Electrophoresis</i> , 2005, 26, 3125-3133. | 1.3 | 35 |
| 98 | A quinoxalinophenazinedione covalent triazine framework for boosted high-performance aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13868-13875. | 5.2 | 35 |
| 99 | Cyclodextrin-clicked silica/CdTe fluorescent nanoparticles for enantioselective recognition of amino acids. <i>Nanoscale</i> , 2016, 8, 5621-5626. | 2.8 | 34 |
| 100 | Synthesis of thieno[3,2-b]thiophene derived conjugated oligomers for field-effect transistors applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 1497. | 6.7 | 33 |
| 101 | Bio-supported palladium nanoparticles as a phosphine-free catalyst for the Suzuki reaction in water. <i>RSC Advances</i> , 2012, 2, 1759. | 1.7 | 33 |
| 102 | Direct access to 4,8-functionalized benzo[1,2-b:4,5-b' \prime]dithiophenes with deep low-lying HOMO levels and high mobilities. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13580-13586. | 5.2 | 33 |
| 103 | Engineering Cyclodextrin Clicked Chiral Stationary Phase for High-Efficiency Enantiomer Separation. <i>Scientific Reports</i> , 2015, 5, 11523. | 1.6 | 33 |
| 104 | Enantioselective separation in capillary electrophoresis using a novel mono-6A-propylammonium- β -cyclodextrin as chiral selector. <i>Analytica Chimica Acta</i> , 2006, 555, 63-67. | 2.6 | 32 |
| 105 | Regulating the morphology of fluorinated non-fullerene acceptor and polymer donor via binary solvent mixture for high efficiency polymer solar cells. <i>Science China Chemistry</i> , 2019, 62, 1221-1229. | 4.2 | 32 |
| 106 | Hydroquinone versus Pyrocatechol Pendants Twisted Conjugated Polymer Cathodes for High-Performance and Robust Aqueous Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2108225. | 7.8 | 32 |
| 107 | A New Hole Transport Material for Efficient Perovskite Solar Cells With Reduced Device Cost. <i>Solar Rrl</i> , 2018, 2, 1700175. | 3.1 | 31 |
| 108 | The design of dithieno[3,2- <i>b</i> :5,6- <i>b'</i>]pyrrole organic photovoltaic materials for high-efficiency organic/perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22572-22592. | 5.2 | 31 |

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|-----|--|-----|-----------|
| 109 | High-temperature ferro-electricity in two-dimensional atomic crystal. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 30 |
| 110 | Over 15.5% efficiency organic solar cells with triple sidechain engineered ITIC. <i>Science Bulletin</i> , 2020, 65, 1533-1536. | 4.3 | 30 |
| 111 | Toughening and compatibilization of polyphenylene sulfide/nylon 66 blends with SEBS and maleic anhydride grafted SEBS triblock copolymers. <i>Journal of Applied Polymer Science</i> , 2007, 106, 2648-2655. | 1.3 | 29 |
| 112 | Facile synthesis of positively charged monosubstituted β - and γ -cyclodextrins for chiral resolution of anionic racemates. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 1548-1553. | 1.8 | 29 |
| 113 | Synthesis, photophysics, theoretical modeling, and electroluminescence of novel 2,7-carbazole-based conjugated polymers with sterically hindered structures. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7725-7738. | 2.5 | 29 |
| 114 | Hydroxyethylammonium monosubstituted cyclodextrin as chiral selector for capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2013, 800, 95-102. | 2.6 | 29 |
| 115 | Tuning nanoscale morphology using mixed solvents and solvent vapor treatment for high performance polymer solar cells. <i>RSC Advances</i> , 2014, 4, 48724-48733. | 1.7 | 29 |
| 116 | A Cu ₃ PS ₄ nanoparticle hole selective layer for efficient inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4604-4610. | 5.2 | 29 |
| 117 | Chlorinated unfused acceptor enabling 13.57% efficiency and 73.39% fill factor organic solar cells via fine-tuning alkoxy chains on benzene core. <i>Chemical Engineering Journal</i> , 2022, 427, 131828. | 6.6 | 29 |
| 118 | Enantioseparation of dansyl amino acids by a novel permanently positively charged single-isomer cyclodextrin: Mono-6-N-allylammonium-6-deoxy- β -cyclodextrin chloride by capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2005, 546, 119-125. | 2.6 | 28 |
| 119 | Enantiomeric separation of 8 hydroxy, 10 carboxylic and 6 dansyl amino acids by mono(6-amino-6-deoxy)- β -cyclodextrin in capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2005, 554, 156-162. | 2.6 | 28 |
| 120 | Methoxyethylammonium monosubstituted β -cyclodextrin as the chiral selector for enantioseparation in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2013, 1277, 84-92. | 1.8 | 27 |
| 121 | A Room-Temperature Processable PDI-Based Electron-Transporting Layer for Enhanced Performance in PDI-Based Non-Fullerene Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600476. | 1.9 | 27 |
| 122 | Per(3-chloro-4-methyl)phenylcarbamate cyclodextrin clicked stationary phase for chiral separation in multiple modes high-performance liquid chromatography. <i>Analytica Chimica Acta</i> , 2016, 946, 96-103. | 2.6 | 27 |
| 123 | Nonacyclic carbazole-based non-fullerene acceptors enable over 12% efficiency with enhanced stability for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21903-21910. | 5.2 | 26 |
| 124 | Boosting PEDOT energy storage with redox dopant and electrolyte additive. <i>Chemical Engineering Journal</i> , 2020, 401, 126123. | 6.6 | 26 |
| 125 | Over 15% Efficiency in Ternary Organic Solar Cells by Enhanced Charge Transport and Reduced Energy Loss. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21633-21640. | 4.0 | 26 |
| 126 | Enantioseparation of acidic enantiomers in capillary electrophoresis using a novel single-isomer of positively charged β -cyclodextrin: Mono-6A-N-pentylammonium-6A-deoxy- β -cyclodextrin chloride. <i>Journal of Chromatography A</i> , 2005, 1091, 152-157. | 1.8 | 25 |

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|-----|--|-----|-----------|
| 127 | Poly(vinylidene fluoride)/poly(methyl methacrylate)/TiO ₂ blown films: preparation and surface study. <i>Journal of Materials Science</i> , 2011, 46, 6656-6663. | 1.7 | 25 |
| 128 | A low temperature processable tin oxide interlayer via amine-modification for efficient and stable organic solar cells. <i>Journal of Energy Chemistry</i> , 2021, 56, 496-503. | 7.1 | 25 |
| 129 | Naphthodifuran alternating quinoxaline copolymers with a bandgap of ≈ 1.2 eV and their photovoltaic characterization. <i>New Journal of Chemistry</i> , 2014, 38, 4816-4822. | 1.4 | 24 |
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