# Yongfang Li

## List of Publications by Year in Descending Order



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| 507 papers | 46,063 citations | 99 h-index | 203 g-index |
| 521 ext. papers | 52,424 ext. citations | 11.9 avg, IF | 8.2 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 507 | Conjugated Mesopolymer Achieving 15% Efficiency Single-Junction Organic Solar Cells.. *Advanced Science*, **2022**, e2105430 | 13.6 | 5 |
| 506 | Constructing Monolithic Perovskite/Organic Tandem Solar Cell with Efficiency of 22.0% via Reduced Open-circuit Voltage Loss and Broadened Absorption Spectra.. *Advanced Materials*, **2022**, e2108829 | 24 | 11 |
| 505 | Influence of altering chlorine substitution positions on the photovoltaic properties of small molecule donors in all-small-molecule organic solar cells. *Journal of Materials Chemistry C*, **2022**, 10, 2017-2025 | 7.1 | 2 |
| 504 | High-Polarizability Organic Ferroelectric Materials Doping for Enhancing Built-in Electric field of Perovskite Solar Cells Realizing Efficiency over 24.. *Advanced Materials*, **2022**, e2110482 | 24 | 18 |
| 503 | Optimizing side chains on different nitrogen aromatic rings achieving 17% efficiency for organic photovoltaics. *Journal of Energy Chemistry*, **2022**, 65, 173-178 | 12 | 9 |
| 502 | 15.71% Efficiency All-Small-Molecule Organic Solar Cells Based on Low-Cost Synthesized Donor Molecules. *Advanced Functional Materials*, **2022**, 32, 2110159 | 15.6 | 8 |
| 501 | Recent progress in organic solar cells (Part I material science). *Science China Chemistry*, **2022**, 65, 224-268 | 7.9 | 48 |
| 500 | Realizing 17.5% Efficiency Flexible Organic Solar Cells via Atomic-Level Chemical Welding of Silver Nanowire Electrodes.. *Journal of the American Chemical Society*, **2022**, | 16.4 | 15 |
| 499 | 2'- and 3'-Ribose Modifications of Nucleotide Analogues Establish the Structural Basis to Inhibit the Viral Replication of SARS-CoV-2.. *Journal of Physical Chemistry Letters*, **2022**, 4111-4118 | 6.4 | 0 |
| 498 | High-efficiency single-junction organic solar cells enabled by double-fibril network morphology. *Science Bulletin*, **2022**, | 10.6 | 1 |
| 497 | Large-area flexible organic solar cells. *Npj Flexible Electronics*, **2021**, 5, | 10.7 | 15 |
| 496 | Effects of Alkyl Side Chains of Small Molecule Donors on Morphology and the Photovoltaic Property of All-Small-Molecule Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 54237-54243 | 9.5 | 6 |
| 495 | All-inorganic Perovskite Solar Cells **2021**, 175-221 | | 0 |
| 494 | A Cost-Effective Alpha-Fluorinated Bithienyl Benzodithiophene Unit for High-Performance Polymer Donor Material. *ACS Applied Materials & Interfaces*, **2021**, 13, 55403-55411 | 9.5 | 1 |
| 493 | Quinoxaline-Based D-A Copolymers for the Applications as Polymer Donor and Hole Transport Material in Polymer/Perovskite Solar Cells. *Advanced Materials*, **2021**, e2104161 | 24 | 6 |
| 492 | Modulating Crystal Packing, Film Morphology, and Photovoltaic Performance of Selenophene-Containing Acceptors through a Combination of Skeleton Isomeric and Regioisomeric Strategies. *ACS Applied Materials & Interfaces*, **2021**, 13, 50163-50175 | 9.5 | 3 |
| 491 | Stable perovskite solar cells with efficiency of 22.6% via quinoxaline-based polymeric hole transport material. *Science China Chemistry*, **2021**, 64, 2035 | 7.9 | 3 |

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| 490 | Annealing- and doping-free hole transport material for p-i-n perovskite solar cells with efficiency achieving over 21%. *Chemical Engineering Journal*, **2021**, 433, 133265 | 14.7 | 2 |
| 489 | Nonradiative Triplet Loss Suppressed in Organic Photovoltaic Blends with Fluoridated Nonfullerene Acceptors. *Journal of the American Chemical Society*, **2021**, 143, 4359-4366 | 16.4 | 24 |
| 488 | One-Source Strategy Boosting Dopant-Free Hole Transporting Layers for Highly Efficient and Stable CsPbI2Br Perovskite Solar Cells. *Advanced Functional Materials*, **2021**, 31, 2010696 | 15.6 | 22 |
| 487 | A Quinoxaline-Based D-A Copolymer Donor Achieving 17.62% Efficiency of Organic Solar Cells. *Advanced Materials*, **2021**, 33, e2100474 | 24 | 70 |
| 486 | A Large-Bandgap Guest Material Enabling Improved Efficiency and Reduced Energy Loss for Ternary Polymer Solar Cells. *Solar Rrl*, **2021**, 5, 2100013 | 7.1 | 4 |
| 485 | Non-equivalent D-A copolymerization strategy towards highly efficient polymer donor for polymer solar cells. *Science China Chemistry*, **2021**, 64, 1031-1038 | 7.9 | 7 |
| 484 | Non-Halogenated-Solvent Processed and Additive-Free Tandem Organic Solar Cell with Efficiency Reaching 16.67%. *Advanced Functional Materials*, **2021**, 31, 2102361 | 15.6 | 16 |
| 483 | Molecular Properties and Aggregation Behavior of Small-Molecule Acceptors Calculated by Molecular Simulation. *ACS Omega*, **2021**, 6, 14467-14475 | 3.9 | 1 |
| 482 | A unified description of non-radiative voltage losses in organic solar cells. *Nature Energy*, **2021**, 6, 799-806 | 62.3 | 70 |
| 481 | Anthracene-Assisted Morphology Optimization in Photoactive Layer for High-Efficiency Polymer Solar Cells. *Advanced Functional Materials*, **2021**, 31, 2103944 | 15.6 | 15 |
| 480 | Fine-Tuning Miscibility and □Stacking by Alkylthio Side Chains of Donor Molecules Enables High-Performance All-Small-Molecule Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 36033-36043 | 9.5 | 10 |
| 479 | Compatibility between Solubility and Enhanced Crystallinity of Benzotriazole-Based Small Molecular Acceptors with Less Bulky Alkyl Chains for Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 36053-36061 | 9.5 | 6 |
| 478 | Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 19053-19057 | 16.4 | 12 |
| 477 | 3D surfactant-dispersed graphenes as cathode interfacial materials for organic solar cells. *Science China Materials*, **2021**, 64, 277-287 | 7.1 | 10 |
| 476 | Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6 % Efficiency Organic Solar Cells with Enhanced Fill Factor. *Angewandte Chemie*, **2021**, 133, 2352-2359 | 3.6 | 9 |
| 475 | Device Performance of Emerging Photovoltaic Materials (Version 1). *Advanced Energy Materials*, **2021**, 11, 2002774 | 21.8 | 56 |
| 474 | Benzotriazole Based 2D-conjugated Polymer Donors for High Performance Polymer Solar Cells. *Chinese Journal of Polymer Science (English Edition)*, **2021**, 39, 1-13 | 3.5 | 39 |
| 473 | High electron mobility fluorinated indacenodithiophene small molecule acceptors for organic solar cells. *Chinese Chemical Letters*, **2021**, 32, 1257-1262 | 8.1 | 6 |

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| 472 | Polymerized Small-Molecule Acceptors for High-Performance All-Polymer Solar Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 4422-4433 | 16.4 | 133 |
| 471 | Polymerized Small-Molecule Acceptors for High-Performance All-Polymer Solar Cells. *Angewandte Chemie*, **2021**, 133, 4470-4481 | 3.6 | 12 |
| 470 | High performance tandem organic solar cells via a strongly infrared-absorbing narrow bandgap acceptor. *Nature Communications*, **2021**, 12, 178 | 17.4 | 52 |
| 469 | High-performance all-small-molecule organic solar cells without interlayers. *Energy and Environmental Science*, **2021**, 14, 3174-3183 | 35.4 | 15 |
| 468 | Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. *Nano-Micro Letters*, **2021**, 13, 44 | 19.5 | 27 |
| 467 | Highly efficient fused ring electron acceptors based on a new undecacyclic core. *Materials Chemistry Frontiers*, **2021**, 5, 2001-2006 | 7.8 | 1 |
| 466 | Precise fluorination of polymeric donors towards efficient non-fullerene organic solar cells with balanced open circuit voltage, short circuit current and fill factor. *Journal of Materials Chemistry A*, **2021**, 9, 14752-14757 | 13 | 7 |
| 465 | Low-temperature-processed metal oxide electron transport layers for efficient planar perovskite solar cells. *Rare Metals*, **2021**, 40, 2730-2746 | 5.5 | 8 |
| 464 | Reducing Energy Disorder of Hole Transport Layer by Charge Transfer Complex for High Performance p-i-n Perovskite Solar Cells. *Advanced Materials*, **2021**, 33, e2006753 | 24 | 34 |
| 463 | Fluorinating Dopant-Free Small-Molecule Hole-Transport Material to Enhance the Photovoltaic Property. *ACS Applied Materials & Interfaces*, **2021**, 13, 7705-7713 | 9.5 | 10 |
| 462 | Morphology optimization of photoactive layers in organic solar cells. *Aggregate*, **2021**, 2, e31 | 22.9 | 8 |
| 461 | Single-wall carbon nanotube-containing cathode interfacial materials for high performance organic solar cells. *Science China Chemistry*, **2021**, 64, 565-575 | 7.9 | 1 |
| 460 | Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. *Angewandte Chemie*, **2021**, 133, 19201-19205 | 3.6 | 0 |
| 459 | Stabilization of formamidinium lead iodide perovskite precursor solution for blade-coating efficient carbon electrode perovskite solar cells*. *Chinese Physics B*, **2021**, 30, 088803 | 1.2 | 2 |
| 458 | Elastic Lattice and Excess Charge Carrier Manipulation in 1D-3D Perovskite Solar Cells for Exceptionally Long-Term Operational Stability. *Advanced Materials*, **2021**, 33, e2105170 | 24 | 25 |
| 457 | Polymerized small molecular acceptor based all-polymer solar cells with an efficiency of 16.16% via tuning polymer blend morphology by molecular design. *Nature Communications*, **2021**, 12, 5264 | 17.4 | 50 |
| 456 | Effects of the Center Units of Small-Molecule Donors on the Morphology, Photovoltaic Performance, and Device Stability of All-Small-Molecule Organic Solar Cells. *Solar Rrl*, **2021**, 5, 2100515 | 7.1 | 4 |
| 455 | Fused-ring acceptors based on quinoxaline unit for highly efficient single-junction organic solar cells with low charge recombination. *Organic Electronics*, **2021**, 98, 106282 | 3.5 | 2 |

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| 454 | A small molecule acceptor with a heptacyclic benzodi(thienocyclopentafuran) central unit achieving 13.4% efficiency in polymer solar cells with low energy loss. *Journal of Materials Chemistry C*, **2021**, 9, 2744-2751 | 7.1 | 6 |
| 453 | Low-Bandgap Non-fullerene Acceptors Enabling High-Performance Organic Solar Cells. *ACS Energy Letters*, **2021**, 6, 598-608 | 20.1 | 75 |
| 452 | Hot-Casting and Anti-solvent Free Fabrication of Efficient and Stable Two-Dimensional Ruddlesden-Popper Perovskite Solar Cells.. *ACS Applied Materials & Interfaces*, **2021**, 13, 61039-61046 | 9.5 | 1 |
| 451 | A review: crystal growth for high-performance all-inorganic perovskite solar cells. *Energy and Environmental Science*, **2020**, 13, 1971-1996 | 35.4 | 78 |
| 450 | 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 | 7.9 | 25 |
| 449 | High-Performance All-Polymer Solar Cells: Synthesis of Polymer Acceptor by a Random Ternary Copolymerization Strategy. *Angewandte Chemie*, **2020**, 132, 15293-15297 | 3.6 | 14 |
| 448 | Dopant-free hole transporting materials with supramolecular interactions and reverse diffusion for efficient and modular p-i-n perovskite solar cells. *Science China Chemistry*, **2020**, 63, 987-996 | 7.9 | 25 |
| 447 | Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. *Nature Communications*, **2020**, 11, 2726 | 17.4 | 236 |
| 446 | Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. *Energy and Environmental Science*, **2020**, 13, 2459-2466 | 35.4 | 199 |
| 445 | Rapidly sequence-controlled electrosynthesis of organometallic polymers. *Nature Communications*, **2020**, 11, 2530 | 17.4 | 14 |
| 444 | Volatilizable and cost-effective quinone-based solid additives for improving photovoltaic performance and morphological stability in non-fullerene polymer solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 13049-13058 | 13 | 27 |
| 443 | A "Hole"-Containing Volatile Solid Additive Enabling 16.5% Efficiency Organic Solar Cells. *IScience* , **2020**, 23, 100965 | 6.1 | 35 |
| 442 | A Non-Fullerene Acceptor with Chlorinated Thienyl Conjugated Side Chains for High-Performance Polymer Solar Cells via Toluene Processing. *Chinese Journal of Chemistry*, **2020**, 38, 697-702 | 4.9 | 14 |
| 441 | Two-Dimension Conjugated Acceptors Based on Benzodi(cyclopentadithiophene) Core with Thiophene-Fused Ending Group for Efficient Polymer Solar Cells. *Solar Rrl*, **2020**, 4, 2000071 | 7.1 | 8 |
| 440 | DA Copolymer Donor Based on Bithienyl Benzodithiophene D-Unit and Monoalkoxy Bifluoroquinoxaline A-Unit for High-Performance Polymer Solar Cells. *Chemistry of Materials*, **2020**, 32, 3254-3261 | 9.6 | 26 |
| 439 | Metal-microstructure based flexible transparent electrodes and their applications in electronic devices. *Nano Select*, **2020**, 1, 169-182 | 3.1 | 11 |
| 438 | An intermeshing electron transporting layer for efficient and stable CsPbI2Br perovskite solar cells with open circuit voltage over 1.3 V. *Journal of Materials Chemistry A*, **2020**, 8, 14555-14565 | 13 | 16 |
| 437 | High-performance all-polymer solar cells with only 0.47 eV energy loss. *Science China Chemistry*, **2020**, 63, 1449-1460 | 7.9 | 39 |

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| 436 | Organic N-Type Molecule: Managing the Electronic States of Bulk Perovskite for High-Performance Photovoltaics. *Advanced Functional Materials*, **2020**, 30, 2001788 | 15.6 | 23 |
| 435 | Realizing Ultrahigh Mechanical Flexibility and >15% Efficiency of Flexible Organic Solar Cells via a "Welding" Flexible Transparent Electrode. *Advanced Materials*, **2020**, 32, e1908478 | 24 | 133 |
| 434 | Mechanically Robust All-Polymer Solar Cells from Narrow Band Gap Acceptors with Hetero-Bridging Atoms. *Joule*, **2020**, 4, 658-672 | 27.8 | 189 |
| 433 | Understanding the Effect of the Third Component PC71BM on Nanoscale Morphology and Photovoltaic Properties of Ternary Organic Solar Cells. *Solar Rrl*, **2020**, 4, 1900540 | 7.1 | 27 |
| 432 | Benzodithiophenedione-based polymers: recent advances in organic photovoltaics. *NPG Asia Materials*, **2020**, 12, | 10.3 | 54 |
| 431 | Understanding the Morphology of High-Performance Solar Cells Based on a Low-Cost Polymer Donor. *ACS Applied Materials & Interfaces*, **2020**, 12, 9537-9544 | 9.5 | 12 |
| 430 | Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. *Advanced Functional Materials*, **2020**, 30, 2000456 | 15.6 | 117 |
| 429 | Highly Efficient All-Small-Molecule Organic Solar Cells with Appropriate Active Layer Morphology by Side Chain Engineering of Donor Molecules and Thermal Annealing. *Advanced Materials*, **2020**, 32, e1908373 | 24 | 100 |
| 428 | Ultrafast Hole Transfer and Carrier Transport Controlled by Nanoscale-Phase Morphology in Nonfullerene Organic Solar Cells. *Journal of Physical Chemistry Letters*, **2020**, 11, 3226-3233 | 6.4 | 42 |
| 427 | Green solvent-processed organic solar cells based on a low cost polymer donor and a small molecule acceptor. *Journal of Materials Chemistry C*, **2020**, 8, 7718-7724 | 7.1 | 20 |
| 426 | Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. *Science China Chemistry*, **2020**, 63, 1159-1168 | 7.9 | 52 |
| 425 | Spin-coated 10.46% and blade-coated 9.52% of ternary semitransparent organic solar cells with 26.56% average visible transmittance. *Solar Energy*, **2020**, 204, 660-666 | 6.8 | 18 |
| 424 | Dibenzo[b,d]thiophene-Cored Hole-Transport Material with Passivation Effect Enabling the High-Efficiency Planar p□□ Perovskite Solar Cells with 83% Fill Factor. *Solar Rrl*, **2020**, 4, 1900421 | 7.1 | 30 |
| 423 | Challenges to the Stability of Active Layer Materials in Organic Solar Cells. *Macromolecular Rapid Communications*, **2020**, 41, e1900437 | 4.8 | 37 |
| 422 | A Layer-by-Layer Architecture for Printable Organic Solar Cells Overcoming the Scaling Lag of Module Efficiency. *Joule*, **2020**, 4, 407-419 | 27.8 | 159 |
| 421 | High Efficiency Polymer Solar Cells with Efficient Hole Transfer at Zero Highest Occupied Molecular Orbital Offset between Methylated Polymer Donor and Brominated Acceptor. *Journal of the American Chemical Society*, **2020**, 142, 1465-1474 | 16.4 | 228 |
| 420 | High-efficiency planar p-i-n perovskite solar cells based on dopant-free dibenzo[b,d]furan-centred linear hole transporting material. *Journal of Power Sources*, **2020**, 449, 227488 | 8.9 | 6 |
| 419 | Impact of Isomer Design on Physicochemical Properties and Performance in High-Efficiency All-Polymer Solar Cells. *Macromolecules*, **2020**, 53, 9026-9033 | 5.5 | 14 |

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| 418 | Effect of the chlorine substitution position of the end-group on intermolecular interactions and photovoltaic performance of small molecule acceptors. *Energy and Environmental Science*, **2020**, 13, 5028-5038 | 35.4 | 29 |
| 417 | Silicon and oxygen synergistic effects for the discovery of new high-performance nonfullerene acceptors. *Nature Communications*, **2020**, 11, 5814 | 17.4 | 21 |
| 416 | Fine-tuning HOMO energy levels between PM6 and PBDB-T polymer donors via ternary copolymerization. *Science China Chemistry*, **2020**, 63, 1256-1261 | 7.9 | 20 |
| 415 | In-situ stabilization strategy for CsPbX3-Silicone resin composite with enhanced luminescence and stability. *Nano Energy*, **2020**, 78, 105150 | 17.1 | 8 |
| 414 | Spatial Distribution Recast for Organic Bulk Heterojunctions for High-Performance All-Inorganic Perovskite/Organic Integrated Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2000851 | 21.8 | 16 |
| 413 | Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2001589 | 21.8 | 25 |
| 412 | Efficient As-Cast Polymer Solar Cells with High and Stabilized Fill Factor. *Solar Rrl*, **2020**, 4, 2000275 | 7.1 | 6 |
| 411 | A low boiling-point and low-cost fluorinated additive improves the efficiency and stability of organic solar cells. *Journal of Materials Chemistry C*, **2020**, 8, 15296-15302 | 7.1 | 5 |
| 410 | Utilizing an electron-deficient thieno[3,4-c]pyrrole-4,6-dione (TPD) unit as a □bridge to improve the photovoltaic performance of A□□A type acceptors. *Journal of Materials Chemistry C*, **2020**, 8, 15981-15984 | 7.1 | 12 |
| 409 | Interfacial Dipole in Organic and Perovskite Solar Cells. *Journal of the American Chemical Society*, **2020**, 142, 18281-18292 | 16.4 | 70 |
| 408 | Transparent Hole-Transporting Frameworks: A Unique Strategy to Design High-Performance Semitransparent Organic Photovoltaics. *Advanced Materials*, **2020**, 32, e2003891 | 24 | 34 |
| 407 | Effects of Short-Axis Alkoxy Substituents on Molecular Self-Assembly and Photovoltaic Performance of Indacenodithiophene-Based Acceptors. *Advanced Functional Materials*, **2020**, 30, 1906855 | 15.6 | 32 |
| 406 | Hydrophilic Fullerene Derivative Doping in Active Layer and Electron Transport Layer for Enhancing Oxygen Stability of Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 1900249 | 7.1 | 6 |
| 405 | Targeted Therapy for Interfacial Engineering Toward Stable and Efficient Perovskite Solar Cells. *Advanced Materials*, **2019**, 31, e1903691 | 24 | 81 |
| 404 | Highly Efficient Semitransparent Organic Solar Cells with Color Rendering Index Approaching 100. *Advanced Materials*, **2019**, 31, e1807159 | 24 | 122 |
| 403 | Realizing 8.6% Efficiency from Non-Halogenated Solvent Processed Additive Free All Polymer Solar Cells with a Quinoxaline Based Polymer. *Solar Rrl*, **2019**, 3, 1800340 | 7.1 | 16 |
| 402 | Multi-length scale morphology of nonfullerene all-small molecule blends and its relation to device function in organic solar cells. *Materials Chemistry Frontiers*, **2019**, 3, 137-144 | 7.8 | 10 |
| 401 | 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 | 16.4 | 251 |

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| 400 | Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. *Nature Communications*, **2019**, 10, 519 | 17.4 | 153 |
| 399 | Solution-Processed Tin Oxide-PEDOT:PSS Interconnecting Layers for Efficient Inverted and Conventional Tandem Polymer Solar Cells. *Solar Rrl*, **2019**, 3, 1800366 | 7.1 | 18 |
| 398 | Ultrafast hole transfer mediated by polaron pairs in all-polymer photovoltaic blends. *Nature Communications*, **2019**, 10, 398 | 17.4 | 39 |
| 397 | A new dialkylthio-substituted naphtho[2,3-c]thiophene-4,9-dione based polymer donor for high-performance polymer solar cells. *Energy and Environmental Science*, **2019**, 12, 675-683 | 35.4 | 61 |
| 396 | A universal layer-by-layer solution-processing approach for efficient non-fullerene organic solar cells. *Energy and Environmental Science*, **2019**, 12, 384-395 | 35.4 | 143 |
| 395 | Synergistic Effects of Side-Chain Engineering and Fluorination on Small Molecule Acceptors to Simultaneously Broaden Spectral Response and Minimize Voltage Loss for 13.8% Efficiency Organic Solar Cells. *Solar Rrl*, **2019**, 3, 1900169 | 7.1 | 19 |
| 394 | Effect of Replacing Thiophene by Selenophene on the Photovoltaic Performance of Wide Bandgap Copolymer Donors. *Macromolecules*, **2019**, 52, 4776-4784 | 5.5 | 17 |
| 393 | 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 | 13 | 60 |
| 392 | A wide-bandgap D-A copolymer donor based on a chlorine substituted acceptor unit for high performance polymer solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 14070-14078 | 13 | 51 |
| 391 | Efficient as-cast semi-transparent organic solar cells with efficiency over 9% and a high average visible transmittance of 27.6. *Physical Chemistry Chemical Physics*, **2019**, 21, 10660-10666 | 3.6 | 22 |
| 390 | Modulating morphology via side-chain engineering of fused ring electron acceptors for high performance organic solar cells. *Science China Chemistry*, **2019**, 62, 790-796 | 7.9 | 16 |
| 389 | Breaking 12% efficiency in flexible organic solar cells by using a composite electrode. *Science China Chemistry*, **2019**, 62, 851-858 | 7.9 | 47 |
| 388 | Synergetic Transparent Electrode Architecture for Efficient Non-Fullerene Flexible Organic Solar Cells with >12% Efficiency. *ACS Nano*, **2019**, 13, 4686-4694 | 16.7 | 63 |
| 387 | Ring-perfluorinated non-volatile additives with a high dielectric constant lead to highly efficient and stable organic solar cells. *Journal of Materials Chemistry C*, **2019**, 7, 4716-4724 | 7.1 | 20 |
| 386 | Fluorinated heptacyclic carbazole-based ladder-type acceptors with aliphatic side chains for efficient fullerene-free organic solar cells. *Materials Chemistry Frontiers*, **2019**, 3, 829-835 | 7.8 | 17 |
| 385 | Fused Benzothiadiazole: A Building Block for n-Type Organic Acceptor to Achieve High-Performance Organic Solar Cells. *Advanced Materials*, **2019**, 31, e1807577 | 24 | 214 |
| 384 | 11.2% Efficiency all-polymer solar cells with high open-circuit voltage. *Science China Chemistry*, **2019**, 62, 845-850 | 7.9 | 114 |
| 383 | A Simple Approach to Prepare Chlorinated Polymer Donors with Low-Lying HOMO Level for High Performance Polymer Solar Cells. *Chemistry of Materials*, **2019**, 31, 6558-6567 | 9.6 | 43 |

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| 382 | High Efficiency Planar p-i-n Perovskite Solar Cells Using Low-Cost Fluorene-Based Hole Transporting Material. *Advanced Functional Materials*, **2019**, 29, 1900484 | 15.6 | 41 |
| 381 | Highly Efficient Flexible Polymer Solar Cells with Robust Mechanical Stability. *Advanced Science*, **2019**, 6, 1801180 | 13.6 | 35 |
| 380 | Realizing high photovoltage for inverted planar heterojunction perovskite solar cells. *Science China Chemistry*, **2019**, 62, 1-2 | 7.9 | 16 |
| 379 | Thioether Bond Modification Enables Boosted Photovoltaic Performance of Nonfullerene Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 32218-32224 | 9.5 | 15 |
| 378 | Achieving Fast Charge Separation and Low Nonradiative Recombination Loss by Rational Fluorination for High-Efficiency Polymer Solar Cells. *Advanced Materials*, **2019**, 31, e1905480 | 24 | 113 |
| 377 | Introducing an identical benzodithiophene donor unit for polymer donors and small-molecule acceptors to unveil the relationship between the molecular structure and photovoltaic performance of non-fullerene organic solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 26351-26357 | 13 | 14 |
| 376 | Polymer Solar Cells: Ternary Polymer Solar Cells Facilitating Improved Efficiency and Stability (Adv. Mater. 52/2019). *Advanced Materials*, **2019**, 31, 1970371 | 24 | 8 |
| 375 | High-performance conjugated polymer donor materials for polymer solar cells with narrow-bandgap nonfullerene acceptors. *Energy and Environmental Science*, **2019**, 12, 3225-3246 | 35.4 | 154 |
| 374 | Reconfiguration of interfacial energy band structure for high-performance inverted structure perovskite solar cells. *Nature Communications*, **2019**, 10, 4593 | 17.4 | 130 |
| 373 | Solution-processable n-doped graphene-containing cathode interfacial materials for high-performance organic solar cells. *Energy and Environmental Science*, **2019**, 12, 3400-3411 | 35.4 | 91 |
| 372 | Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. *Journal of Materials Chemistry A*, **2019**, 7, 25088-25101 | 13 | 61 |
| 371 | Unraveling Sunlight by Transparent Organic Semiconductors toward Photovoltaic and Photosynthesis. *ACS Nano*, **2019**, 13, 1071-1077 | 16.7 | 89 |
| 370 | Precise Control of Crystal Growth for Highly Efficient CsPbI2Br Perovskite Solar Cells. *Joule*, **2019**, 3, 191-204 | 27.8 | 296 |
| 369 | Single-Junction Organic Solar Cell with over 15% Efficiency Using Fused-Ring Acceptor with Electron-Deficient Core. *Joule*, **2019**, 3, 1140-1151 | 27.8 | 2595 |
| 368 | Effects of DIO on the charge recombination behaviors of PTB7:PC71BM photovoltaics. *Organic Electronics*, **2019**, 67, 50-56 | 3.5 | 9 |
| 367 | A low cost and high performance polymer donor material for polymer solar cells. *Nature Communications*, **2018**, 9, 743 | 17.4 | 459 |
| 366 | Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. *Angewandte Chemie*, **2018**, 130, 4670-4674 | 3.6 | 9 |
| 365 | Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. *Angewandte Chemie - International Edition*, **2018**, 57, 4580-4584 | 16.4 | 99 |

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| 364 | A new perspective for organic solar cells: triplet nonfullerene acceptors. *Science China Chemistry*, **2018**, 61, 637-638 | 7.9 | 3 |
| 363 | High-efficiency organic solar cells based on a small-molecule donor and a low-bandgap polymer acceptor with strong absorption. *Journal of Materials Chemistry A*, **2018**, 6, 9613-9622 | 13 | 21 |
| 362 | A Medium Bandgap D-A Copolymer Based on 4-Alkyl-3,5-difluorophenyl Substituted Quinoxaline Unit for High Performance Solar Cells. *Macromolecules*, **2018**, 51, 2838-2846 | 5.5 | 36 |
| 361 | Flexible Solar Cells: Self-Doping Fullerene Electrolyte-Based Electron Transport Layer for All-Room-Temperature-Processed High-Performance Flexible Polymer Solar Cells (Adv. Funct. Mater. 13/2018). *Advanced Functional Materials*, **2018**, 28, 1870085 | 15.6 | 1 |
| 360 | A Semitransparent Inorganic Perovskite Film for Overcoming Ultraviolet Light Instability of Organic Solar Cells and Achieving 14.03% Efficiency. *Advanced Materials*, **2018**, 30, e1800855 | 24 | 183 |
| 359 | Realizing Enhanced Efficiency in Nonhalogen Solvent Processed Ternary Polymer Solar Cells by Incorporating Compatible Polymer Donor. *Solar Rrl*, **2018**, 2, 1800060 | 7.1 | 22 |
| 358 | Self-Doping Fullerene Electrolyte-Based Electron Transport Layer for All-Room-Temperature-Processed High-Performance Flexible Polymer Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1705847 | 15.6 | 51 |
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