

Feng Gao

List of Publications by Year in descending order

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238
papers

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citations

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docs citations

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times ranked

20046
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. <i>Aggregate</i> , 2022, 3, e58. | 9.9 | 85 |
| 2 | Surface modulation of halide perovskite films for efficient and stable solar cells. <i>Chinese Physics B</i> , 2022, 31, 037303. | 1.4 | 3 |
| 3 | Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. <i>Energy and Environmental Science</i> , 2022, 15, 855-865. | 30.8 | 62 |
| 4 | Facet orientation tailoring via 2D-seed-induced growth enables highly efficient and stable perovskite solar cells. <i>Joule</i> , 2022, 6, 240-257. | 24.0 | 128 |
| 5 | Tailoring Phase Purity in the 2D/3D Perovskite Heterostructures Using Lattice Mismatch. <i>ACS Energy Letters</i> , 2022, 7, 550-559. | 17.4 | 23 |
| 6 | Interfacial engineering from material to solvent: A mechanistic understanding on stabilizing Li^+ -formamidinium lead triiodide perovskite photovoltaics. <i>Nano Energy</i> , 2022, 94, 106924. | 16.0 | 13 |
| 7 | Facet Orientation and Intermediate Phase Regulation via a Green Antisolvent for High-Performance Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, . | 5.8 | 12 |
| 8 | High-Performance All-Small-Molecule Organic Solar Cells Enabled by Regioisomerization of Noncovalently Conformational Locks. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 34 |
| 9 | Thermally Activated Reverse Electron Transfer Limits Carrier Generation Efficiency in PM6:Y6 Non-Fullerene Organic Solar Cells. <i>Solar Rrl</i> , 2022, 6, . | 5.8 | 9 |
| 10 | Light-Emitting Diodes Based on Two-Dimensional Nanoplatelets. <i>Energy Material Advances</i> , 2022, 2022, . | 11.0 | 26 |
| 11 | Manipulating molecular aggregation and crystalline behavior of A δ A' type acceptors by side chain engineering in organic solar cells. <i>Aggregate</i> , 2022, 3, . | 9.9 | 16 |
| 12 | Non-fused medium bandgap electron acceptors for efficient organic photovoltaics. <i>Journal of Energy Chemistry</i> , 2022, 70, 576-582. | 12.9 | 22 |
| 13 | New insights in construction of three-dimensional donor/acceptor interface for high performance perovskite solar cells -- the preparation of wolf tooth stick-like TiO ₂ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, , 128958. | 4.7 | 4 |
| 14 | Mapping the energy level alignment at donor/acceptor interfaces in non-fullerene organic solar cells. <i>Nature Communications</i> , 2022, 13, 2046. | 12.8 | 41 |
| 15 | Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18%. <i>Nature Communications</i> , 2022, 13, 2598. | 12.8 | 113 |
| 16 | Reconfigurable self-powered imaging photodetectors by reassembling and disassembling ZnO/perovskite heterojunctions. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8922-8930. | 5.5 | 15 |
| 17 | Natural Product Betulin-Based Insulating Polymer Filler in Organic Solar Cells. <i>Solar Rrl</i> , 2022, 6, . | 5.8 | 7 |
| 18 | A- δ A structured non-fullerene acceptors for stable organic solar cells with efficiency over 17%. <i>Science China Chemistry</i> , 2022, 65, 1374-1382. | 8.2 | 53 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Fluorinated Perylene \AA Diimides: Cathode Interlayers Facilitating Carrier Collection for High \AA Performance Organic Solar Cells. <i>Advanced Materials</i> , 2022, 34, . | 21.0 | 62 |
| 20 | Accelerated aging of all-inorganic, interface-stabilized perovskite solar cells. <i>Science</i> , 2022, 377, 307-310. | 12.6 | 121 |
| 21 | Blueshifting the Absorption of a Small \AA Molecule Donor and Using it as the Third Component to Achieve High \AA Efficiency Ternary Organic Solar Cells. <i>Solar Rrl</i> , 2022, 6, . | 5.8 | 8 |
| 22 | Synergistic strain engineering of perovskite single crystals for highly stable and sensitive X-ray detectors with low-bias imaging and monitoring. <i>Nature Photonics</i> , 2022, 16, 575-581. | 31.4 | 138 |
| 23 | Interplay between charge separation and hole back transfer determines the efficiency of non-fullerene organic solar cells with low energy level offset. <i>Organic Electronics</i> , 2022, 108, 106601. | 2.6 | 4 |
| 24 | Mechanisms and Suppression of Photoinduced Degradation in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2002326. | 19.5 | 118 |
| 25 | Dynamic Redistribution of Mobile Ions in Perovskite Light \AA Emitting Diodes. <i>Advanced Functional Materials</i> , 2021, 31, 2007596. | 14.9 | 23 |
| 26 | The atomic-level structure of bandgap engineered double perovskite alloys $\text{Cs}_{2-x}\text{Ag}_x\text{FeCl}_6$. <i>Chemical Science</i> , 2021, 12, 1730-1735. | 7.4 | 34 |
| 27 | Fluorinated End Group Enables High \AA Performance All \AA Polymer Solar Cells with Near \AA Infrared Absorption and Enhanced Device Efficiency over 14%. <i>Advanced Energy Materials</i> , 2021, 11, 2003171. | 19.5 | 89 |
| 28 | Carrier Dynamics and Evaluation of Lasing Actions in Halide Perovskites. <i>Trends in Chemistry</i> , 2021, 3, 34-46. | 8.5 | 47 |
| 29 | Metal halide perovskites for light-emitting diodes. <i>Nature Materials</i> , 2021, 20, 10-21. | 27.5 | 800 |
| 30 | Revealing Morphology Evolution in Highly Efficient Bulk Heterojunction and Pseudo \AA Planar Heterojunction Solar Cells by Additives Treatment. <i>Advanced Energy Materials</i> , 2021, 11, 2003390. | 19.5 | 106 |
| 31 | Combining Two-Layer Semi-Three-Dimensional Reconstruction and Multi-Wavelength Image Fusion for Functional Diffuse Optical Tomography. <i>IEEE Transactions on Computational Imaging</i> , 2021, 7, 1055-1068. | 4.4 | 4 |
| 32 | A universal method for constructing high efficiency organic solar cells with stacked structures. <i>Energy and Environmental Science</i> , 2021, 14, 2314-2321. | 30.8 | 75 |
| 33 | Mixed halide perovskites for spectrally stable and high-efficiency blue light-emitting diodes. <i>Nature Communications</i> , 2021, 12, 361. | 12.8 | 268 |
| 34 | Highly efficient fused ring electron acceptors based on a new undecacyclic core. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2001-2006. | 5.9 | 3 |
| 35 | Phenylalkylammonium passivation enables perovskite light emitting diodes with record high-radiance operational lifetime: the chain length matters. <i>Nature Communications</i> , 2021, 12, 644. | 12.8 | 109 |
| 36 | Optimizing the Charge Carrier and Light Management of Nonfullerene Acceptors for Efficient Organic Solar Cells with Small Nonradiative Energy Losses. <i>Solar Rrl</i> , 2021, 5, 2100008. | 5.8 | 20 |

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|----|--|------|-----------|
| 37 | Effect of alloying on the dynamics of coherent acoustic phonons in bismuth double perovskite single crystals. <i>Optics Express</i> , 2021, 29, 7948. | 3.4 | 4 |
| 38 | Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. <i>Science Advances</i> , 2021, 7, . | 10.3 | 98 |
| 39 | High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. <i>Journal of the American Chemical Society</i> , 2021, 143, 2665-2670. | 13.7 | 245 |
| 40 | Critical role of additive-induced molecular interaction on the operational stability of perovskite light-emitting diodes. <i>Joule</i> , 2021, 5, 618-630. | 24.0 | 99 |
| 41 | 16% efficiency all-polymer organic solar cells enabled by a finely tuned morphology via the design of ternary blend. <i>Joule</i> , 2021, 5, 914-930. | 24.0 | 228 |
| 42 | High-Performance Noncovalently Fused-Ring Electron Acceptors for Organic Solar Cells Enabled by Noncovalent Intramolecular Interactions and End-Group Engineering. <i>Angewandte Chemie</i> , 2021, 133, 12583-12589. | 2.0 | 31 |
| 43 | High-Performance Noncovalently Fused-Ring Electron Acceptors for Organic Solar Cells Enabled by Noncovalent Intramolecular Interactions and End-Group Engineering. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12475-12481. | 13.8 | 155 |
| 44 | Non-fullerene acceptors with branched side chains and improved molecular packing to exceed 18% efficiency in organic solar cells. <i>Nature Energy</i> , 2021, 6, 605-613. | 39.5 | 1,307 |
| 45 | Decoupling the effects of defects on efficiency and stability through phosphonates in stable halide perovskite solar cells. <i>Joule</i> , 2021, 5, 1246-1266. | 24.0 | 91 |
| 46 | Ï-Extended Nonfullerene Acceptors for Efficient Organic Solar Cells with a High Open-Circuit Voltage of 0.94 V and a Low Energy Loss of 0.49 eV. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22531-22539. | 8.0 | 22 |
| 47 | Accurate photovoltaic measurement of organic cells for indoor applications. <i>Joule</i> , 2021, 5, 1016-1023. | 24.0 | 52 |
| 48 | High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor. <i>Science China Chemistry</i> , 2021, 64, 1380-1388. | 8.2 | 51 |
| 49 | Color-Stable Blue Light-Emitting Diodes Enabled by Effective Passivation of Mixed Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6041-6047. | 4.6 | 21 |
| 50 | High-Brightness Perovskite Light-Emitting Diodes Based on FAPbBr ₃ Nanocrystals with Rationally Designed Aromatic Ligands. <i>ACS Energy Letters</i> , 2021, 6, 2395-2403. | 17.4 | 67 |
| 51 | A unified description of non-radiative voltage losses in organic solar cells. <i>Nature Energy</i> , 2021, 6, 799-806. | 39.5 | 235 |
| 52 | Side-Chain Engineering for Enhancing the Molecular Rigidity and Photovoltaic Performance of Noncovalently Fused-Ring Electron Acceptors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17720-17725. | 13.8 | 113 |
| 53 | Impact of Amine Additives on Perovskite Precursor Aging: A Case Study of Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5836-5843. | 4.6 | 6 |
| 54 | Side-Chain Engineering for Enhancing the Molecular Rigidity and Photovoltaic Performance of Noncovalently Fused-Ring Electron Acceptors. <i>Angewandte Chemie</i> , 2021, 133, 17861-17866. | 2.0 | 10 |

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|----|--|------|-----------|
| 55 | Carrier Mobility Dynamics under Actual Working Conditions of Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14567-14575. | 3.1 | 3 |
| 56 | Aligning Transition Dipole Moment toward Light Amplification and Polarized Emission in Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021, 9, 2100984. | 7.3 | 4 |
| 57 | Non-fullerene acceptor photostability and its impact on organic solar cell lifetime. <i>Cell Reports Physical Science</i> , 2021, 2, 100498. | 5.6 | 35 |
| 58 | Advances in solution-processed near-infrared light-emitting diodes. <i>Nature Photonics</i> , 2021, 15, 656-669. | 31.4 | 136 |
| 59 | Mobile ions determine the luminescence yield of perovskite light-emitting diodes under pulsed operation. <i>Nature Communications</i> , 2021, 12, 4899. | 12.8 | 30 |
| 60 | Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. <i>Nature Communications</i> , 2021, 12, 4831. | 12.8 | 56 |
| 61 | In Situ Optical Studies on Morphology Formation in Organic Photovoltaic Blends. <i>Small Methods</i> , 2021, 5, e2100585. | 8.6 | 21 |
| 62 | Enhancing the Photovoltaic Performance of Triplet Acceptors Enabled by Side-Chain Engineering. <i>Solar Rrl</i> , 2021, 5, 2100522. | 5.8 | 12 |
| 63 | Lead-Free Double Perovskite Cs ₂ AgBiBr ₆ : Fundamentals, Applications, and Perspectives. <i>Advanced Functional Materials</i> , 2021, 31, 2105898. | 14.9 | 166 |
| 64 | The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021, 597, 666-671. | 27.8 | 225 |
| 65 | Degradation and self-repairing in perovskite light-emitting diodes. <i>Matter</i> , 2021, 4, 3710-3724. | 10.0 | 51 |
| 66 | Organic nanocrystals induced surface passivation towards high-efficiency and stable perovskite solar cells. <i>Nano Energy</i> , 2021, 89, 106445. | 16.0 | 19 |
| 67 | Reversible Ionic Polarization in Metal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 283-289. | 3.1 | 2 |
| 68 | Spacer Cation Alloying in Ruddlesden-Popper Perovskites for Efficient Red Light-Emitting Diodes with Precisely Tunable Wavelengths. <i>Advanced Materials</i> , 2021, 33, e2104381. | 21.0 | 41 |
| 69 | A guest-assisted molecular-organization approach for >17% efficiency organic solar cells using environmentally friendly solvents. <i>Nature Energy</i> , 2021, 6, 1045-1053. | 39.5 | 230 |
| 70 | Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1902650. | 19.5 | 516 |
| 71 | High-Performance Perovskite Light-Emitting Diode with Enhanced Operational Stability Using Lithium Halide Passivation. <i>Angewandte Chemie</i> , 2020, 132, 4128-4134. | 2.0 | 8 |
| 72 | High-Performance Perovskite Light-Emitting Diode with Enhanced Operational Stability Using Lithium Halide Passivation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4099-4105. | 13.8 | 130 |

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|----|---|------|-----------|
| 73 | Subtle Molecular Tailoring Induces Significant Morphology Optimization Enabling over 16% Efficiency Organic Solar Cells with Efficient Charge Generation. <i>Advanced Materials</i> , 2020, 32, e1906324. | 21.0 | 312 |
| 74 | Reducing Voltage Losses in the A-DA ² D-A Acceptor-Based Organic Solar Cells. <i>CheM</i> , 2020, 6, 2147-2161. | 11.7 | 150 |
| 75 | Deciphering the Role of Chalcogen-Containing Heterocycles in Nonfullerene Acceptors for Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 3415-3425. | 17.4 | 73 |
| 76 | Ultrathin Single-Crystalline 2D Perovskite Photoconductor for High-Performance Narrowband and Wide Linear Dynamic Range Photodetection. <i>Small</i> , 2020, 16, e2005626. | 10.0 | 26 |
| 77 | All-Polymer Solar Cells with over 12% Efficiency and a Small Voltage Loss Enabled by a Polymer Acceptor Based on an Extended Fused Ring Core. <i>Advanced Energy Materials</i> , 2020, 10, 2001408. | 19.5 | 55 |
| 78 | Reducing energy loss via tuning energy levels of polymer acceptors for efficient all-polymer solar cells. <i>Science China Chemistry</i> , 2020, 63, 1785-1792. | 8.2 | 32 |
| 79 | Promoting charge separation resulting in ternary organic solar cells efficiency over 17.5%. <i>Nano Energy</i> , 2020, 78, 105272. | 16.0 | 132 |
| 80 | Efficient and High-Luminance Perovskite Light-Emitting Diodes Based on CsPbBr ₃ Nanocrystals Synthesized from a Dual-Purpose Organic Lead Source. <i>Small</i> , 2020, 16, e2003939. | 10.0 | 18 |
| 81 | Effect of the Energy Offset on the Charge Dynamics in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43984-43991. | 8.0 | 19 |
| 82 | A Narrow-Bandgap n-Type Polymer with an Acceptor Acceptor Backbone Enabling Efficient All-Polymer Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2004183. | 21.0 | 184 |
| 83 | Intermediate-phase-assisted low-temperature formation of $\text{I}^3\text{-CsPbI}_3$ films for high-efficiency deep-red light-emitting devices. <i>Nature Communications</i> , 2020, 11, 4736. | 12.8 | 50 |
| 84 | Single-emissive-layer all-perovskite white light-emitting diodes employing segregated mixed halide perovskite crystals. <i>Chemical Science</i> , 2020, 11, 11338-11343. | 7.4 | 18 |
| 85 | Near-Infrared Light-Responsive Cu-Doped Cs ₂ AgBiBr ₆ . <i>Advanced Functional Materials</i> , 2020, 30, 2005521. | 14.9 | 56 |
| 86 | Two Compatible Polymer Donors Enabling Ternary Organic Solar Cells with a Small Nonradiative Energy Loss and Broad Composition Tolerance. <i>Solar Rrl</i> , 2020, 4, 2000396. | 5.8 | 22 |
| 87 | Thermal-induced interface degradation in perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15079-15085. | 5.5 | 30 |
| 88 | From Generation to Extraction: A Time-Resolved Investigation of Photophysical Processes in Non-fullerene Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21283-21292. | 3.1 | 8 |
| 89 | Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 4165. | 12.8 | 217 |
| 90 | Magnetizing lead-free halide double perovskites. <i>Science Advances</i> , 2020, 6, . | 10.3 | 56 |

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|-----|--|------|-----------|
| 91 | Emerging Approaches in Enhancing the Efficiency and Stability in Non-Fullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2002746. | 19.5 | 124 |
| 92 | Triplet Acceptors with a D _A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15043-15049. | 13.8 | 77 |
| 93 | Dimensional Tailoring of Ultrahigh Vacuum Annealing-Assisted Quantum Wells for the Efficiency Enhancement of Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24965-24970. | 8.0 | 2 |
| 94 | Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. <i>Energy and Environmental Science</i> , 2020, 13, 2459-2466. | 30.8 | 324 |
| 95 | Effect of Crystal Symmetry on the Spin States of Fe ³⁺ and Vibration Modes in Lead-free Double-Perovskite Cs ₂ AgBi(Fe)Br ₆ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4873-4878. | 4.6 | 11 |
| 96 | Triplet Acceptors with a D _A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , 2020, 132, 15153-15159. | 2.0 | 11 |
| 97 | Lead-Free Halide Double Perovskite Cs ₂ AgBiBr ₆ with Decreased Band Gap. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15191-15194. | 13.8 | 80 |
| 98 | Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. <i>Joule</i> , 2020, 4, 1236-1247. | 24.0 | 344 |
| 99 | Lead-Free Halide Double Perovskite Cs ₂ AgBiBr ₆ with Decreased Band Gap. <i>Angewandte Chemie</i> , 2020, 132, 15303-15306. | 2.0 | 34 |
| 100 | Double Active Layers Constructed with Halide Perovskite and Quantum Dots for Broadband Photodetection. <i>Advanced Optical Materials</i> , 2020, 8, 2000557. | 7.3 | 19 |
| 101 | Bidirectional optical signal transmission between two identical devices using perovskite diodes. <i>Nature Electronics</i> , 2020, 3, 156-164. | 26.0 | 126 |
| 102 | Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020, 32, e1908205. | 21.0 | 1,407 |
| 103 | Diluted Organic Semiconductors in Photovoltaics. <i>Solar Rrl</i> , 2020, 4, 2000261. | 5.8 | 11 |
| 104 | A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020, 369, 96-102. | 12.6 | 461 |
| 105 | Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 891. | 12.8 | 83 |
| 106 | Efficient and Spectrally Stable Blue Perovskite Light-Emitting Diodes Based on Potassium Passivated Nanocrystals. <i>Advanced Functional Materials</i> , 2020, 30, 1908760. | 14.9 | 134 |
| 107 | Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020, 5, 131-140. | 39.5 | 894 |
| 108 | Barrierless Free Charge Generation in the High-Performance PM6:Y6 Bulk Heterojunction Non-Fullerene Solar Cell. <i>Advanced Materials</i> , 2020, 32, e1906763. | 21.0 | 258 |

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|-----|---|------|-----------|
| 109 | A disorder-free conformation boosts phonon and charge transfer in an electron-deficient-core-based non-fullerene acceptor. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8566-8574. | 10.3 | 37 |
| 110 | Understanding energetic disorder in electron-deficient-core-based non-fullerene solar cells. <i>Science China Chemistry</i> , 2020, 63, 1159-1168. | 8.2 | 92 |
| 111 | Stable and bright formamidinium-based perovskite light-emitting diodes with high energy conversion efficiency. <i>Nature Communications</i> , 2019, 10, 3624. | 12.8 | 104 |
| 112 | Modulating Structure Ordering via Side-Chain Engineering of Thieno[3,4- <i>b</i>]thiophene-Based Electron Acceptors for Efficient Organic Solar Cells with Reduced Energy Losses. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35193-35200. | 8.0 | 7 |
| 113 | Wide-gap non-fullerene acceptor enabling high-performance organic photovoltaic cells for indoor applications. <i>Nature Energy</i> , 2019, 4, 768-775. | 39.5 | 407 |
| 114 | Realizing Efficient Charge/Energy Transfer and Charge Extraction in Fullerene-Free Organic Photovoltaics via a Versatile Third Component. <i>Nano Letters</i> , 2019, 19, 5053-5061. | 9.1 | 47 |
| 115 | Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , 2019, 571, 245-250. | 27.8 | 1,103 |
| 116 | Toward Quantitative Near Infrared Brain Functional Imaging: Lock-In Photon Counting Instrumentation Combined With Tomographic Reconstruction. <i>IEEE Access</i> , 2019, 7, 86829-86842. | 4.2 | 10 |
| 117 | High-Quality Ruddlesden-Popper Perovskite Films Based on In Situ Formed Organic Spacer Cations. <i>Advanced Materials</i> , 2019, 31, e1904243. | 21.0 | 35 |
| 118 | A monothiophene unit incorporating both fluoro and ester substitution enabling high-performance donor polymers for non-fullerene solar cells with 16.4% efficiency. <i>Energy and Environmental Science</i> , 2019, 12, 3328-3337. | 30.8 | 337 |
| 119 | Blue perovskite light-emitting diodes: progress, challenges and future directions. <i>Nanoscale</i> , 2019, 11, 2109-2120. | 5.6 | 211 |
| 120 | Thermochromic Lead-Free Halide Double Perovskites. <i>Advanced Functional Materials</i> , 2019, 29, 1807375. | 14.9 | 120 |
| 121 | Efficient and Tunable Electroluminescence from In Situ Synthesized Perovskite Quantum Dots. <i>Small</i> , 2019, 15, e1804947. | 10.0 | 23 |
| 122 | Enabling low voltage losses and high photocurrent in fullerene-free organic photovoltaics. <i>Nature Communications</i> , 2019, 10, 570. | 12.8 | 377 |
| 123 | Control of Donor-Acceptor Photophysics through Structural Modification of a Twisting-Push-Pull Molecule. <i>Chemistry of Materials</i> , 2019, 31, 6860-6869. | 6.7 | 15 |
| 124 | Unveiling the synergistic effect of precursor stoichiometry and interfacial reactions for perovskite light-emitting diodes. <i>Nature Communications</i> , 2019, 10, 2818. | 12.8 | 129 |
| 125 | Diffusion-Limited Crystallization: A Rationale for the Thermal Stability of Non-Fullerene Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21766-21774. | 8.0 | 82 |
| 126 | Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. <i>Nature Communications</i> , 2019, 10, 2515. | 12.8 | 1,431 |

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|-----|---|------|-----------|
| 127 | Spectral-Stable Blue Emission from Moisture-Treated Low-Dimensional Lead Bromide-Based Perovskite Films. <i>ACS Photonics</i> , 2019, 6, 1728-1735. | 6.6 | 21 |
| 128 | Surface Chlorination of ZnO for Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Solar Rrl</i> , 2019, 3, 1900154. | 5.8 | 37 |
| 129 | Bright Free Exciton Electroluminescence from Mn-Doped Two-Dimensional Layered Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3171-3175. | 4.6 | 35 |
| 130 | The crucial role of end group planarity for fused-ring electron acceptors in organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1642-1652. | 5.9 | 12 |
| 131 | 14.7% Efficiency Organic Photovoltaic Cells Enabled by Active Materials with a Large Electrostatic Potential Difference. <i>Journal of the American Chemical Society</i> , 2019, 141, 7743-7750. | 13.7 | 379 |
| 132 | Stable, High-Sensitivity and Fast-Response Photodetectors Based on Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite Films. <i>Advanced Optical Materials</i> , 2019, 7, 1801732. | 7.3 | 126 |
| 133 | Metal Doping/Alloying of Cesium Lead Halide Perovskite Nanocrystals and their Applications in Light-Emitting Diodes with Enhanced Efficiency and Stability. <i>Israel Journal of Chemistry</i> , 2019, 59, 695-707. | 2.3 | 23 |
| 134 | A New Acceptor for Highly Efficient Organic Solar Cells. <i>Joule</i> , 2019, 3, 908-909. | 24.0 | 33 |
| 135 | Fundamentals of Solar Cells and Light-Emitting Diodes. , 2019, , 1-35. | | 4 |
| 136 | Structural and Functional Diversity in Lead-Free Halide Perovskite Materials. <i>Advanced Materials</i> , 2019, 31, e1900326. | 21.0 | 198 |
| 137 | Rational molecular passivation for high-performance perovskite light-emitting diodes. <i>Nature Photonics</i> , 2019, 13, 418-424. | 31.4 | 970 |
| 138 | Sulfur vs. tellurium: the heteroatom effects on the nonfullerene acceptors. <i>Science China Chemistry</i> , 2019, 62, 897-903. | 8.2 | 10 |
| 139 | Recent progress toward perovskite light-emitting diodes with enhanced spectral and operational stability. <i>Materials Today Nano</i> , 2019, 5, 100028. | 4.6 | 86 |
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