

Alex Jen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

768
papers

59,847
citations

125
h-index

210
g-index

819
ext. papers

65,996
ext. citations

11
avg, IF

8.09
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 768 | Highly efficient and stable perovskite solar cells enabled by low-dimensional perovskitoids.. <i>Science Advances</i> , 2022 , 8, eabk2722 | 14.3 | 14 |
| 767 | Enabling high-performance, centimeter-scale organic solar cells through three-dimensional charge transport. <i>Cell Reports Physical Science</i> , 2022 , 100761 | 6.1 | 0 |
| 766 | The synergistic effects of central core size and end group engineering on performance of narrow bandgap nonfullerene acceptors. <i>Chemical Engineering Journal</i> , 2022 , 435, 135020 | 14.7 | 0 |
| 765 | Near-infrared absorbing polymer acceptors enabled by selenophene-fused core and halogenated end-group for binary all-polymer solar cells with efficiency over 16%. <i>Nano Energy</i> , 2022 , 92, 106718 | 17.1 | 15 |
| 764 | An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics. <i>Nano Energy</i> , 2022 , 93, 106853 | 17.1 | 15 |
| 763 | Interface Engineering in Solution-Processed Thin-Film Solar Cells. <i>Accounts of Materials Research</i> , 2022 , 3, 272-282 | 7.5 | 0 |
| 762 | Self-assembled Monolayer Enabling Improved Buried Interfaces in Blade-coated Perovskite Solar Cells for High Efficiency and Stability 2022 , 4 | | 10 |
| 761 | The molecular ordering and double channel carrier generation of non-fullerene photovoltaics within multi-length-scale morphology.. <i>Advanced Materials</i> , 2022 , e2108317 | 24 | 16 |
| 760 | Side-Chain Substituents on Benzotriazole-Based Polymer Acceptors Affecting the Performance of All-Polymer Solar Cells.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200062 | 4.8 | 1 |
| 759 | 16.3% Efficiency binary all-polymer solar cells enabled by a novel polymer acceptor with an asymmetrical selenophene-fused backbone. <i>Science China Chemistry</i> , 2022 , 65, 309-317 | 7.9 | 12 |
| 758 | Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules. <i>Advanced Energy Materials</i> , 2022 , 12, 2103236 | 21.8 | 17 |
| 757 | Harvesting the Triplet Excitons of Quasi-Two-Dimensional Perovskite toward Highly Efficient White Light-Emitting Diodes.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3674-3681 | 6.4 | |
| 756 | Efficient and stable Cs ₂ AgBiBr ₆ double perovskite solar cells through in-situ surface modulation. <i>Chemical Engineering Journal</i> , 2022 , 446, 137144 | 14.7 | 5 |
| 755 | The evolution and future of metal halide perovskite-based optoelectronic devices. <i>Matter</i> , 2021 , 4, 3814-3834 | 13.4 | 6 |
| 754 | Designs from single junctions, heterojunctions to multijunctions for high-performance perovskite solar cells. <i>Chemical Society Reviews</i> , 2021 , 50, 13090-13128 | 58.5 | 23 |
| 753 | Enabling High Efficiency of Hydrocarbon-Solvent Processed Organic Solar Cells through Balanced Charge Generation and Non-Radiative Loss. <i>Advanced Energy Materials</i> , 2021 , 11, 2101768 | 21.8 | 18 |
| 752 | Selenium-Containing Organic Photovoltaic Materials. <i>Accounts of Chemical Research</i> , 2021 , 54, 3906-3916 | 14.3 | 15 |

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| 751 | Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2105539 | 24 | 27 |
| 750 | Plasmon-induced trap filling at grain boundaries in perovskite solar cells. <i>Light: Science and Applications</i> , 2021 , 10, 219 | 16.7 | 5 |
| 749 | Technical Challenges and Perspectives for the Commercialization of Solution-Processable Solar Cells. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000960 | 6.8 | 18 |
| 748 | Regulating the Aggregation of Unfused Non-Fullerene Acceptors via Molecular Engineering towards Efficient Polymer Solar Cells. <i>ChemSusChem</i> , 2021 , 14, 3579-3589 | 8.3 | 8 |
| 747 | Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. <i>Angewandte Chemie</i> , 2021 , 133, 16071-16079 | 3.6 | 0 |
| 746 | Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15935-15943 | 16.4 | 54 |
| 745 | Over 16% Efficiency of Thick-Film Organic Photovoltaics with Symmetric and Asymmetric Non-Fullerene Materials as Alloyed Acceptor. <i>Solar Rrl</i> , 2021 , 5, 2100365 | 7.1 | 6 |
| 744 | Asymmetric Isomer Effects in Benzo[c][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , 2021 , 31, 2104369 | 15.6 | 15 |
| 743 | All-Inorganic CsPbI ₃ Quantum Dot Solar Cells with Efficiency over 16% by Defect Control. <i>Advanced Functional Materials</i> , 2021 , 31, 2005930 | 15.6 | 42 |
| 742 | Over 17% Efficiency Binary Organic Solar Cells with Photoresponses Reaching 1000 nm Enabled by Selenophene-Fused Nonfullerene Acceptors. <i>ACS Energy Letters</i> , 2021 , 6, 9-15 | 20.1 | 79 |
| 741 | Dopant-free dicyanofluoranthene-based hole transporting material with low cost enables efficient flexible perovskite solar cells. <i>Nano Energy</i> , 2021 , 82, 105701 | 17.1 | 35 |
| 740 | Asymmetric Acceptors Enabling Organic Solar Cells to Achieve an over 17% Efficiency: Conformation Effects on Regulating Molecular Properties and Suppressing Nonradiative Energy Loss. <i>Advanced Energy Materials</i> , 2021 , 11, 2003177 | 21.8 | 61 |
| 739 | Organic Semiconductors at the University of Washington: Advancements in Materials Design and Synthesis and toward Industrial Scale Production. <i>Advanced Materials</i> , 2021 , 33, e1904239 | 24 | 18 |
| 738 | Improved stability and efficiency of perovskite/organic tandem solar cells with an all-inorganic perovskite layer. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19778-19787 | 13 | 13 |
| 737 | Pseudo-bilayer architecture enables high-performance organic solar cells with enhanced exciton diffusion length. <i>Nature Communications</i> , 2021 , 12, 468 | 17.4 | 61 |
| 736 | The coupling and competition of crystallization and phase separation, correlating thermodynamics and kinetics in OPV morphology and performances. <i>Nature Communications</i> , 2021 , 12, 332 | 17.4 | 64 |
| 735 | Modifying Surface Termination of CsPbI ₃ Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , 2021 , 31, 2009515 | 15.6 | 24 |
| 734 | High-Efficiency Quasi-2D Perovskite Solar Cells Incorporating 2,2'-Biimidazolium Cation. <i>Solar Rrl</i> , 2021 , 5, 2000700 | 7.1 | 3 |

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| 733 | Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7227-7233 | 16.4 | 42 |
| 732 | Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie</i> , 2021 , 133, 7303-7309 | 3.6 | 8 |
| 731 | 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 | 16.4 | 112 |
| 730 | Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2021 , 133, 20600-20605 | 3.6 | 1 |
| 729 | Flexibility of Room-Temperature-Synthesized Amorphous CdO-InO Alloy Films and Their Application as Transparent Conductors in Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43795-43805 | 9.5 | 1 |
| 728 | Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20437-20442 | 16.4 | 13 |
| 727 | Design of Superhydrophobic Surfaces for Stable Perovskite Solar Cells with Reducing Lead Leakage. <i>Advanced Energy Materials</i> , 2021 , 11, 2102281 | 21.8 | 15 |
| 726 | Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO ₂ inorganic interlayer. <i>Matter</i> , 2021 , | 12.7 | 8 |
| 725 | Regiospecific -alkyl substitution tunes the molecular packing of high-performance non-fullerene acceptors. <i>Materials Horizons</i> , 2021 , | 14.4 | 5 |
| 724 | Dilution effect for highly efficient multiple-component organic solar cells. <i>Nature Nanotechnology</i> , 2021 , | 28.7 | 16 |
| 723 | Narrow Bandpass and Efficient Semitransparent Organic Solar Cells Based on Bioinspired Spectrally Selective Electrodes. <i>ACS Nano</i> , 2020 , 14, 5998-6006 | 16.7 | 22 |
| 722 | Highly Stable and Efficient Perovskite Solar Cells with 22.0% Efficiency Based on Inorganic/Organic Dopant-Free Double Hole Transporting Layers. <i>Advanced Functional Materials</i> , 2020 , 30, 1908462 | 15.6 | 36 |
| 721 | Interfacial Modification through a Multifunctional Molecule for Inorganic Perovskite Solar Cells with over 18% Efficiency. <i>Solar Rrl</i> , 2020 , 4, 2000205 | 7.1 | 22 |
| 720 | Dopant-Free Crossconjugated Hole-Transporting Polymers for Highly Efficient Perovskite Solar Cells. <i>Advanced Science</i> , 2020 , 7, 1903331 | 13.6 | 29 |
| 719 | Hybrid Quantum Dot/Organic Heterojunction: A Route to Improve Open-Circuit Voltage in PbS Colloidal Quantum Dot Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2335-2342 | 20.1 | 33 |
| 718 | Biomimetic Electrodes for Flexible Organic Solar Cells with Efficiencies over 16%. <i>Advanced Optical Materials</i> , 2020 , 8, 2000669 | 8.1 | 25 |
| 717 | Hybrid Perovskite-Organic Flexible Tandem Solar Cell Enabling Highly Efficient Electrocatalysis Overall Water Splitting. <i>Advanced Energy Materials</i> , 2020 , 10, 2000361 | 21.8 | 37 |
| 716 | Synthesis of a side-chain hole transporting polymer through Mitsunobu post-functionalization for efficient inverted perovskite solar cells. <i>Polymer Chemistry</i> , 2020 , 11, 2883-2888 | 4.9 | 3 |

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| 715 | The role of dipole moment in two fused-ring electron acceptor and one polymer donor based ternary organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1507-1518 | 7.8 | 13 |
| 714 | Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment. <i>Nature Communications</i> , 2020 , 11, 1192 | 17.4 | 65 |
| 713 | Low-Bandgap Porphyrins for Highly Efficient Organic Solar Cells: Materials, Morphology, and Applications. <i>Advanced Materials</i> , 2020 , 32, e1906129 | 24 | 78 |
| 712 | Coordination Engineering of Single-Crystal Precursor for Phase Control in Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1904050 | 21.8 | 30 |
| 711 | As-Cast Ternary Organic Solar Cells Based on an Asymmetric Side-Chains Featured Acceptor with Reduced Voltage Loss and 14.0% Efficiency. <i>Advanced Functional Materials</i> , 2020 , 30, 1909535 | 15.6 | 33 |
| 710 | 2D Perovskites: Coordination Engineering of Single-Crystal Precursor for Phase Control in Ruddlesden-Popper Perovskite Solar Cells (Adv. Energy Mater. 16/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070072 | 21.8 | 0 |
| 709 | A silicon-organic hybrid platform for quantum microwave-to-optical transduction. <i>Quantum Science and Technology</i> , 2020 , 5, 034004 | 5.5 | 15 |
| 708 | Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. <i>Nature Communications</i> , 2020 , 11, 177 | 17.4 | 200 |
| 707 | Vertical Orientated Dion-Jacobson Quasi-2D Perovskite Film with Improved Photovoltaic Performance and Stability. <i>Small Methods</i> , 2020 , 4, 1900831 | 12.8 | 52 |
| 706 | Boosting Efficiency of Near-Infrared Organic Light-Emitting Diodes with Os(II)-Based Pyrazinyl Azolate Emitters. <i>Advanced Functional Materials</i> , 2020 , 30, 1906738 | 15.6 | 33 |
| 705 | Roles of Ancillary Chelates and Overall Charges of Bis-tridentate Ir(III) Phosphors for OLED Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1084-1093 | 9.5 | 20 |
| 704 | High-performance organic second- and third-order nonlinear optical materials for ultrafast information processing. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15009-15026 | 7.1 | 34 |
| 703 | Minimized surface deficiency on wide-bandgap perovskite for efficient indoor photovoltaics. <i>Nano Energy</i> , 2020 , 78, 105377 | 17.1 | 32 |
| 702 | Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20134-20142 | 16.4 | 185 |
| 701 | Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2711-2720 | 20.1 | 137 |
| 700 | Methoxy-substituted bis-tridentate iridium(III) phosphors and fabrication of blue organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13590-13602 | 7.1 | 9 |
| 699 | 2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. <i>Nature Nanotechnology</i> , 2020 , 15, 934-940 | 28.7 | 119 |
| 698 | Approaching 16% Efficiency in All-Small-Molecule Organic Solar Cells Based on Ternary Strategy with a Highly Crystalline Acceptor. <i>Joule</i> , 2020 , 4, 2223-2236 | 27.8 | 93 |

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| 697 | A Non-fullerene Acceptor with Enhanced Intermolecular π -Core Interaction for High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15246-15251 | 16.4 | 138 |
| 696 | A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. <i>Small Methods</i> , 2020 , 4, 2000687 | 12.8 | 56 |
| 695 | Asymmetrical side-chain engineering of small-molecule acceptors enable high-performance nonfullerene organic solar cells. <i>Nano Energy</i> , 2020 , 67, 104209 | 17.1 | 22 |
| 694 | Cationic Polyelectrolyte for Anionic Cyanines: An Efficient Way To Translate Molecular Properties into Material Properties. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17331-17336 | 16.4 | 3 |
| 693 | Magnetic Field Modulation of Recombination Processes in Organic Photovoltaics. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 460-463 | 3.7 | 5 |
| 692 | On understanding bandgap bowing and optoelectronic quality in Pb/Bn alloy hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16285-16293 | 13 | 39 |
| 691 | Enhanced stability and photovoltage for inverted perovskite solar cells via precursor engineering. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15880-15886 | 13 | 13 |
| 690 | Fused selenophene-thieno[3,2-b]thiophene-selenophene (ST)-based narrow-bandgap electron acceptor for efficient organic solar cells with small voltage loss. <i>Chemical Communications</i> , 2019 , 55, 8258-8261 | 5.8 | 34 |
| 689 | A multi-functional interface derived from thiol-modified mesoporous carbon in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13372-13381 | 13 | 11 |
| 688 | Tailoring the Functionality of Organic Spacer Cations for Efficient and Stable Quasi-2D Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1900221 | 15.6 | 94 |
| 687 | Random copolymerization realized high efficient polymer solar cells with a record fill factor near 80%. <i>Nano Energy</i> , 2019 , 61, 228-235 | 17.1 | 23 |
| 686 | Plasmonic Metal Nanoparticles with Core-Shell Structure for High-Performance Organic and Perovskite Solar Cells. <i>ACS Nano</i> , 2019 , 13, 5397-5409 | 16.7 | 61 |
| 685 | Functional Pyrimidinyl Pyrazolate Pt(II) Complexes: Role of Nitrogen Atom in Tuning the Solid-State Stacking and Photophysics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900923 | 15.6 | 38 |
| 684 | Photoinduced Charge Transfer in Single-Molecule p-n Junctions. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2175-2181 | 6.4 | 8 |
| 683 | Efficient large guanidinium mixed perovskite solar cells with enhanced photovoltage and low energy losses. <i>Chemical Communications</i> , 2019 , 55, 4315-4318 | 5.8 | 85 |
| 682 | Over 12% Efficiency Nonfullerene All-Small-Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. <i>Advanced Materials</i> , 2019 , 31, e1807842 | 24 | 228 |
| 681 | Tuning self-healing properties of stiff, ion-conductive polymers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6773-6783 | 13 | 19 |
| 680 | Regio-Specific Selenium Substitution in Non-Fullerene Acceptors for Efficient Organic Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 6770-6778 | 9.6 | 41 |

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|-----|--|------|----|
| 679 | Highly Efficient Semitransparent Solar Cells with Selective Absorption and Tandem Architecture. <i>Advanced Materials</i> , 2019 , 31, e1901683 | 24 | 61 |
| 678 | A new type of solid-state luminescent 2-phenylbenzo[g]furo[2,3-b]quinoxaline derivative: synthesis, photophysical characterization and transporting properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9690-9697 | 7.1 | 10 |
| 677 | Realization of Highly Efficient Red Phosphorescence from Bis-Tridentate Iridium(III) Phosphors. <i>Inorganic Chemistry</i> , 2019 , 58, 10944-10954 | 5.1 | 24 |
| 676 | Side-Chain Engineering on Dopant-Free Hole-Transporting Polymers toward Highly Efficient Perovskite Solar Cells (20.19%). <i>Advanced Functional Materials</i> , 2019 , 29, 1904856 | 15.6 | 48 |
| 675 | Trihydrazine Dihydriodide-Assisted Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900285 | 7.1 | 25 |
| 674 | Boosting the Performance of Environmentally Friendly Quantum Dot-Sensitized Solar Cells over 13% Efficiency by Dual Sensitizers with Cascade Energy Structure. <i>Advanced Materials</i> , 2019 , 31, e1903634 | 3.4 | 37 |
| 673 | A 0D/3D Heterostructured All-Inorganic Halide Perovskite Solar Cell with High Performance and Enhanced Phase Stability. <i>Advanced Materials</i> , 2019 , 31, e1904735 | 24 | 77 |
| 672 | A Dopant-Free Polymeric Hole-Transporting Material Enabled High Fill Factor Over 81% for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1902600 | 21.8 | 52 |
| 671 | Recent advances in molecular design of functional conjugated polymers for high-performance polymer solar cells. <i>Progress in Polymer Science</i> , 2019 , 99, 101175 | 29.6 | 83 |
| 670 | Nonlinear refraction and absorption measurements of thin films by the dual-arm Z-scan method. <i>Applied Optics</i> , 2019 , 58, D28-D33 | 1.7 | 3 |
| 669 | Boosting Photovoltaic Performance for Lead Halide Perovskites Solar Cells with BF ₄ ⁻ Anion Substitutions. <i>Advanced Functional Materials</i> , 2019 , 29, 1808833 | 15.6 | 62 |
| 668 | Improved Efficiency and Stability of Pb/Sn Binary Perovskite Solar Cells Fabricated by Galvanic Displacement Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1802774 | 21.8 | 48 |
| 667 | Bioinspired Controllable Electro-Chemomechanical Coloration Films. <i>Advanced Functional Materials</i> , 2019 , 29, 1806383 | 15.6 | 21 |
| 666 | Phenyl- and Pyrazolyl-Functionalized Pyrimidine: Versatile Chromophore of Bis-Tridentate Ir(III) Phosphors for Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2019 , 31, 6453-6464 | 9.6 | 29 |
| 665 | A1-A2 Type Wide Bandgap Polymers for High-Performance Polymer Solar Cells: Energy Loss and Morphology. <i>Solar Rrl</i> , 2019 , 3, 1800291 | 7.1 | 15 |
| 664 | Fullerene-Anchored Core-Shell ZnO Nanoparticles for Efficient and Stable Dual-Sensitized Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 417-431 | 27.8 | 44 |
| 663 | Reducing Surface Recombination Velocities at the Electrical Contacts Will Improve Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 222-227 | 20.1 | 96 |
| 662 | Nonhalogen Solvent-Processed Asymmetric Wide-Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. <i>Advanced Functional Materials</i> , 2018 , 28, 1706517 | 15.6 | 57 |

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|-----|--|------|------|
| 661 | Design, synthesis, and properties of nonlinear optical chromophores based on a verbenone bridge with a novel dendritic acceptor. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2840-2847 | 7.1 | 21 |
| 660 | Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. <i>Scientific Reports</i> , 2018 , 8, 2598 | 4.9 | 50 |
| 659 | Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , 2018 , 3, | 73.3 | 1634 |
| 658 | Dithienopicenocarbazole-Based Acceptors for Efficient Organic Solar Cells with Optoelectronic Response Over 1000 nm and an Extremely Low Energy Loss. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2054-2057 | 16.4 | 322 |
| 657 | Terthieno[3,2-b]Thiophene (6T) Based Low Bandgap Fused-Ring Electron Acceptor for Highly Efficient Solar Cells with a High Short-Circuit Current Density and Low Open-Circuit Voltage Loss. <i>Advanced Energy Materials</i> , 2018 , 8, 1702831 | 21.8 | 82 |
| 656 | Tunable Band Gap and Long Carrier Recombination Lifetime of Stable Mixed CH ₃ NH ₃ PbxSn _{1-x} Br ₃ Single Crystals. <i>Chemistry of Materials</i> , 2018 , 30, 1556-1565 | 9.6 | 63 |
| 655 | Low-Temperature Solution-Processed CuCrO ₂ Hole-Transporting Layer for Efficient and Photostable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702762 | 21.8 | 100 |
| 654 | Realizing Efficient Lead-Free Formamidinium Tin Triiodide Perovskite Solar Cells via a Sequential Deposition Route. <i>Advanced Materials</i> , 2018 , 30, 1703800 | 24 | 151 |
| 653 | Perovskite Photovoltaics: Pseudohalide-Induced Recrystallization Engineering for CH ₃ NH ₃ PbI ₃ Film and Its Application in Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells (Adv. Funct. Mater. 2/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870013 | 15.6 | 5 |
| 652 | Enhancing Defect Tolerance and Phase Stability of High-Bandgap Perovskites via Guanidinium Alloying. <i>ACS Energy Letters</i> , 2018 , 3, 1261-1268 | 20.1 | 78 |
| 651 | All-Inorganic Hetero-Structured Cesium Tin Halide Perovskite Light-Emitting Diodes With Current Density Over 900 A cm ⁻² and Its Amplified Spontaneous Emission Behaviors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800090 | 2.5 | 38 |
| 650 | Ultra-efficient and stable electro-optic dendrimers containing supramolecular homodimers of semifluorinated dipolar aromatics. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 901-909 | 7.8 | 37 |
| 649 | Photochemical changes in absorption and fluorescence of DDM-containing epoxies. <i>Polymer</i> , 2018 , 142, 11-22 | 3.9 | 4 |
| 648 | Mechanochemical changes in absorption and fluorescence of DDM-containing epoxies. <i>Polymer</i> , 2018 , 142, 132-143 | 3.9 | 6 |
| 647 | Tackling Energy Loss for High-Efficiency Organic Solar Cells with Integrated Multiple Strategies. <i>Advanced Materials</i> , 2018 , 30, e1706816 | 24 | 75 |
| 646 | Enhanced crystallization and performance of formamidinium lead triiodide perovskite solar cells through PbI ₂ -SrCl ₂ modulation. <i>Materials Today Energy</i> , 2018 , 7, 239-245 | 7 | 9 |
| 645 | Enhancing efficiency of perovskite solar cells by reducing defects through imidazolium cation incorporation. <i>Materials Today Energy</i> , 2018 , 7, 161-168 | 7 | 31 |
| 644 | An Electron Acceptor with Broad Visible-NIR Absorption and Unique Solid State Packing for As-Cast High Performance Binary Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802324 | 15.6 | 99 |

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|-----|--|------|-----|
| 643 | Bis-Tridentate Iridium(III) Phosphors with Very High Photostability and Fabrication of Blue-Emitting OLEDs. <i>Advanced Science</i> , 2018 , 5, 1800846 | 13.6 | 50 |
| 642 | Tuning H- and J-Aggregate Behavior in π -Conjugated Polymers via Noncovalent Interactions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18860-18869 | 3.8 | 23 |
| 641 | Solution-Processed Low-Bandgap CuIn(S,Se) ₂ Absorbers for High-Efficiency Single-Junction and Monolithic Chalcopyrite-Perovskite Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801254 | 21.8 | 37 |
| 640 | Ternary non-fullerene polymer solar cells with 13.51% efficiency and a record-high fill factor of 78.13%. <i>Energy and Environmental Science</i> , 2018 , 11, 3392-3399 | 35.4 | 122 |
| 639 | Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , 2018 , 30, 5429-5434 | 9.6 | 158 |
| 638 | Thermochromic Polymer Film Sensors for Detection of Incipient Thermal Damage in Carbon Fiber/Epoxy Composites. <i>Sensors</i> , 2018 , 18, | 3.8 | 4 |
| 637 | Long-Lived, Non-Geminate, Radiative Recombination of Photogenerated Charges in a Polymer/Small-Molecule Acceptor Photovoltaic Blend. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9996-10008 | 16.4 | 61 |
| 636 | Inorganic CsPb _{1-x} Sn _x IBr ₂ for Efficient Wide-Bandgap Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800525 | 21.8 | 154 |
| 635 | Overcoming the Photovoltage Plateau in Large Bandgap Perovskite Photovoltaics. <i>Nano Letters</i> , 2018 , 18, 3985-3993 | 11.5 | 72 |
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| 632 | Intensive Exposure of Functional Rings of a Polymeric Hole-Transporting Material Enables Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1804028 | 24 | 77 |
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| 627 | Quantifying Efficiency Loss of Perovskite Solar Cells by a Modified Detailed Balance Model. <i>Advanced Energy Materials</i> , 2018 , 8, 1701586 | 21.8 | 64 |
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| 624 | Bandwidth Optimization for Mach-Zehnder Polymer/Sol-Gel Modulators. <i>Journal of Lightwave Technology</i> , 2018 , 36, 4181-4189 | 4 | 12 |
| 623 | Near-Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1803769 | 24 | 102 |
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| 620 | Possible interfacial ion/charge accumulation in thin-film perovskite/fullerene surfactant planar heterojunction solar cells. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 504001 | 3 | 3 |
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| 606 | A regioregular conjugated polymer for high performance thick-film organic solar cells without processing additive. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10517-10525 | 13 | 38 |
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| 588 | CsPbBr ₃ Perovskite Quantum Dot Vertical Cavity Lasers with Low Threshold and High Stability. <i>ACS Photonics</i> , 2017 , 4, 2281-2289 | 6.3 | 157 |
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| 499 | Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. <i>Advanced Energy Materials</i> , 2014 , 4, 1301645 | 21.8 | 65 |
| 498 | Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2-b]thiophene-Based Polymers and Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 1465-1473 | 15.6 | 120 |
| 497 | A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. <i>Advanced Energy Materials</i> , 2014 , 4, 1400206 | 21.8 | 106 |
| 496 | Additive enhanced crystallization of solution-processed perovskite for highly efficient planar-heterojunction solar cells. <i>Advanced Materials</i> , 2014 , 26, 3748-54 | 24 | 1242 |
| 495 | High-Dielectric Constant Side-Chain Polymers Show Reduced Non-Geminate Recombination in Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301857 | 21.8 | 93 |
| 494 | Metal Oxide Interlayers for Polymer Solar Cells 2014 , 319-342 | | 0 |
| 493 | Integrated Photonic Electromagnetic Field Sensor Based on Broadband Bowtie Antenna Coupled Silicon Organic Hybrid Modulator. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3774-3784 | 4 | 85 |
| 492 | Pyrene and diketopyrrolopyrrole-based oligomers synthesized via direct arylation for OSC applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6765-75 | 9.5 | 65 |
| 491 | Efficient all polymer solar cells from layer-evolved processing of a bilayer inverted structure. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 416-420 | 7.1 | 33 |
| 490 | Role of self-assembled tetraoctylammonium bromide on various conjugated polymers in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 272-276 | 7.1 | 6 |
| 489 | In situ doping and crosslinking of fullerenes to form efficient and robust electron-transporting layers for polymer solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 638-643 | 35.4 | 45 |
| 488 | Tetrathienodibenzocarbazole Based Donor-Acceptor Type Wide Band-Gap Copolymers for Polymer Solar Cell Applications. <i>Macromolecules</i> , 2014 , 47, 7407-7415 | 5.5 | 17 |
| 487 | Heterojunction modification for highly efficient organic-inorganic perovskite solar cells. <i>ACS Nano</i> , 2014 , 8, 12701-9 | 16.7 | 546 |
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| 485 | Low-temperature processed high-performance flexible perovskite solar cells via rationally optimized solvent washing treatments. <i>RSC Advances</i> , 2014 , 4, 62971-62977 | 3.7 | 160 |
| 484 | Silica/Electro-Optic Polymer Optical Modulator With Integrated Antenna for Microwave Receiving. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3861-3867 | 4 | 20 |
| 483 | Modification of a Teng-Man technique to measure both r_{33} and r_{13} electro-optic coefficients. <i>Applied Physics Letters</i> , 2014 , 105, 113302 | 3.4 | 3 |
| 482 | Eleven-Membered Fused-Ring Low Band-Gap Polymer with Enhanced Charge Carrier Mobility and Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2014 , 24, 3631-3638 | 15.6 | 94 |

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| 481 | Role of chloride in the morphological evolution of organo-lead halide perovskite thin films. <i>ACS Nano</i> , 2014 , 8, 10640-54 | 16.7 | 328 |
| 480 | Microcavity-enhanced light-trapping for highly efficient organic parallel tandem solar cells. <i>Advanced Materials</i> , 2014 , 26, 6778-84 | 24 | 81 |
| 479 | Low operational voltage and high performance organic field effect memory transistor with solution processed graphene oxide charge storage media. <i>Organic Electronics</i> , 2014 , 15, 2775-2782 | 3.5 | 12 |
| 478 | Binary-metal perovskites toward high-performance planar-heterojunction hybrid solar cells. <i>Advanced Materials</i> , 2014 , 26, 6454-60 | 24 | 259 |
| 477 | Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. <i>Advanced Materials</i> , 2014 , 26, 6262-7 | 24 | 198 |
| 476 | Performance limits of plasmon-enhanced organic photovoltaics. <i>Applied Physics Letters</i> , 2014 , 105, 033304 | 3.4 | 16 |
| 475 | Systematic Doping Control of CVD Graphene Transistors with Functionalized Aromatic Self-Assembled Monolayers. <i>Advanced Functional Materials</i> , 2014 , 24, 3464-3470 | 15.6 | 36 |
| 474 | Interfacial engineering of ultrathin metal film transparent electrode for flexible organic photovoltaic cells. <i>Advanced Materials</i> , 2014 , 26, 3618-23 | 24 | 159 |
| 473 | Integrated molecular, interfacial, and device engineering towards high-performance non-fullerene based organic solar cells. <i>Advanced Materials</i> , 2014 , 26, 5708-14 | 24 | 366 |
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| 471 | Broadband Low-power Optical Modulator Based on Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide 2014 , | | 3 |
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| 468 | Enhanced third harmonic generation by organic materials on high-Q plasmonic photonic crystals. <i>Optics Express</i> , 2014 , 22, 20292-7 | 3.3 | 4 |
| 467 | Enhanced conductivity of sol-gel silica cladding for efficient poling in electro-optic polymer/TiO ₂ vertical slot waveguide modulators. <i>Optics Express</i> , 2014 , 22, 30191-9 | 3.3 | 11 |
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| 462 | Molecular Weight Effect on the Absorption, Charge Carrier Mobility, and Photovoltaic Performance of an Indacenodiselenophene-Based Ladder-Type Polymer. <i>Chemistry of Materials</i> , 2013 , 25, 3188-3195 | 9.6 | 137 |
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| 458 | Photo-induced denitrogenation of triazoline moieties for efficient photo-assisted poling of electro-optic polymers. <i>Polymer Chemistry</i> , 2013 , 4, 4434 | 4.9 | 10 |
| 457 | A Versatile Fluoro-Containing Low-Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5084-5090 | 15.6 | 98 |
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| 455 | Flexible and twistable non-volatile memory cell array with all-organic one diode-one resistor architecture. <i>Nature Communications</i> , 2013 , 4, 2707 | 17.4 | 141 |
| 454 | Highly Efficient Organic Electrooptic Materials and Their Hybrid Systems for Advanced Photonic Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 42-53 | 3.8 | 29 |
| 453 | Configurable silicon photonic crystal waveguides. <i>Applied Physics Letters</i> , 2013 , 103, 261112 | 3.4 | 2 |
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| 447 | CBr ₄ activation: making diketopyrrolopyrrole derivatives easily accessible. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2795 | 13 | 108 |
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| 428 | All-organic photopatterned one diode-one resistor cell array for advanced organic nonvolatile memory applications. <i>Advanced Materials</i> , 2012 , 24, 828-33 | 24 | 66 |

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| 413 | Optical design of transparent thin metal electrodes to enhance in-coupling and trapping of light in flexible polymer solar cells. <i>Advanced Materials</i> , 2012 , 24, 6362-7 | 24 | 115 |
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| 404 | Recent advances in solution-processed interfacial materials for efficient and stable polymer solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 5994 | 35.4 | 903 |
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| 401 | High-Performance Inverted Polymer Solar Cells: Device Characterization, Optical Modeling, and Hole-Transporting Modifications. <i>Advanced Functional Materials</i> , 2012 , 22, 2804-2811 | 15.6 | 56 |
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| 395 | Chemically Doped and Cross-linked Hole-Transporting Materials as an Efficient Anode Buffer Layer for Polymer Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 5006-5015 | 9.6 | 63 |
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| 380 | Electro-optic polymer spatial light modulator based on a Fabry-Perot interferometer configuration. <i>Optics Express</i> , 2011 , 19, 12750-8 | 3.3 | 8 |
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| 377 | High speed electro-optic polymer phase modulator using an in-plane slotline RF waveguide 2011 , | | 3 |
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| 375 | Simultaneous Modification of Bottom-Contact Electrode and Dielectric Surfaces for Organic Thin-Film Transistors Through Single-Component Spin-Cast Monolayers. <i>Advanced Functional Materials</i> , 2011 , 21, 1476-1488 | 15.6 | 67 |
| 374 | Spin-cast and patterned organophosphonate self-assembled monolayer dielectrics on metal-oxide-activated Si. <i>Advanced Materials</i> , 2011 , 23, 1899-902 | 24 | 58 |

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| 364 | Solvent-vapor annealing-induced growth, alignment, and patterning of π-conjugated supramolecular nanowires. <i>Journal of Materials Research</i> , 2011 , 26, 311-321 | 2.5 | 10 |
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| 359 | Threshold voltage control in organic thin film transistors with dielectric layer modified by a genetically engineered polypeptide. <i>Applied Physics Letters</i> , 2010 , 97, 013307 | 3.4 | 34 |
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| 351 | Organic Electro-Optic Materials. <i>ACS Symposium Series</i> , 2010 , 13-33 | 0.4 | | 7 |
| 350 | Ultra-compact silicon nanophotonic modulator based on electro-optic polymer infiltrated slot photonic crystal waveguide 2010 , | | | 1 |
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