Jian Wang

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Impurities and Electronic Property Variations of Natural MoS ₂ Crystal Surfaces. ACS Nano, 2015, 9, 9124-9133. | 14.6 | 240 |
| 2 | Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. Nature Photonics, 2021, 15, 238-244. | 31.4 | 231 |
| 3 | Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. ACS Energy Letters, 2018, 3, 2086-2093. | 17.4 | 224 |
| 4 | HfSe ₂ Thin Films: 2D Transition Metal Dichalcogenides Grown by Molecular Beam Epitaxy. ACS Nano, 2015, 9, 474-480. | 14.6 | 195 |
| 5 | Carbon coated Li3V2(PO4)3 cathode material prepared by a PVA assisted sol–gel method. Electrochimica Acta, 2010, 55, 3864-3869. | 5.2 | 149 |
| 6 | Reducing Surface Recombination Velocities at the Electrical Contacts Will Improve Perovskite Photovoltaics. ACS Energy Letters, 2019, 4, 222-227. | 17.4 | 138 |
| 7 | Perovskite White Light Emitting Diodes: Progress, Challenges, and Opportunities. ACS Nano, 2021, 15, 17150-17174. | 14.6 | 101 |
| 8 | Room-temperature fabrication of a delafossite CuCrO ₂ hole transport layer for perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 469-477. | 10.3 | 91 |
| 9 | Lowâ€Temperature Solutionâ€Processed Molybdenum Oxide Nanoparticle Hole Transport Layers for Organic Photovoltaic Devices. Advanced Energy Materials, 2012, 2, 1193-1197. | 19.5 | 82 |
| 10 | Fully Solution-Processed Tandem White Quantum-Dot Light-Emitting Diode with an External Quantum Efficiency Exceeding 25%. ACS Nano, 2018, 12, 6040-6049. | 14.6 | 82 |
| 11 | Intensity and wavelength dependence of bimolecular recombination in P3HT:PCBM solar cells: A white-light biased external quantum efficiency study. Journal of Applied Physics, 2013, 113, . | 2.5 | 65 |
| 12 | Effect of Plasmonic Au Nanoparticles on Inverted Organic Solar Cell Performance. Journal of Physical Chemistry C, 2013, 117, 85-91. | 3.1 | 61 |
| 13 | Solution Synthesized <i>p</i> -Type Copper Gallium Oxide Nanoplates as Hole Transport Layer for Organic Photovoltaic Devices. Journal of Physical Chemistry Letters, 2015, 6, 1071-1075. | 4.6 | 59 |
| 14 | Photonâ€Induced Reversible Phase Transition in CsPbBr ₃ Perovskite. Advanced Functional Materials, 2019, 29, 1807922. | 14.9 | 56 |
| 15 | Sub-10 nm copper chromium oxide nanocrystals as a solution processed p-type hole transport layer for organic photovoltaics. Journal of Materials Chemistry C, 2016, 4, 3607-3613. | 5.5 | 50 |
| 16 | Transport Effects on Capacitance-Frequency Analysis for Defect Characterization in Organic Photovoltaic Devices. Physical Review Applied, 2016, 6, . | 3.8 | 36 |
| 17 | Reducing Surface Recombination Velocity of Methylammonium-Free Mixed-Cation Mixed-Halide Perovskites via Surface Passivation. Chemistry of Materials, 2021, 33, 5035-5044. | 6.7 | 33 |
| 18 | Solution Processed ZnO Hybrid Nanocomposite with Tailored Work Function for Improved Electron Transport Layer in Organic Photovoltaic Devices. ACS Applied Materials & Interfaces, 2013, 5, 9128-9133. | 8.0 | 32 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Effects of Contact-Induced Doping on the Behaviors of Organic Photovoltaic Devices. Nano Letters, 2015, 15, 7627-7632. | 9.1 | 32 |
| 20 | Combustion Synthesis of p-Type Transparent Conducting CuCrO _{2+<i>x</i>} and Cu:CrO _{<i>x</i>} Thin Films at 180 °C. ACS Applied Materials & Interfaces, 2018, 10, 3732-3738. | 8.0 | 29 |
| 21 | Surface photovoltage characterization of organic photovoltaic devices. Applied Physics Letters, 2013, 103, . | 3.3 | 28 |
| 22 | Tropical and Boreal Forest – Atmosphere Interactions: A Review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 74, 24. | 1.6 | 27 |
| 23 | Origin of Photocurrent in Fullerene-Based Solar Cells. Journal of Physical Chemistry C, 2018, 122, 15140-15148. | 3.1 | 24 |
| 24 | Scanning Kelvin Probe Microscopy Reveals That Ion Motion Varies with Dimensionality in 2D Halide Perovskites. ACS Energy Letters, 2021, 6, 100-108. | 17.4 | 23 |
| 25 | Solution-processed oxide thin film transistors on shape memory polymer enabled by photochemical self-patterning. Journal of Materials Research, 2018, 33, 2454-2462. | 2.6 | 22 |
| 26 | Role of Charge Transfer States in P3HT-Fullerene Solar Cells. Journal of Physical Chemistry C, 2014, 118, 27681-27689. | 3.1 | 20 |
| 27 | One-Step Synthesis of ZnO Nanocrystals in <i>n</i> Butanol with Bandgap Control: Applications in Hybrid and Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2014, 118, 18417-18423. | 3.1 | 16 |
| 28 | Revealing the effect of donor/acceptor intermolecular arrangement on organic solar cells performance based on two-dimensional conjugated small molecule as electron donor. Organic Electronics, 2015, 24, 30-36. | 2.6 | 16 |
| 29 | Quantitative Analyses of Competing Photocurrent Generation Mechanisms in Fullerene-Based Organic Photovoltaics. Journal of Physical Chemistry C, 2016, 120, 16470-16477. | 3.1 | 15 |
| 30 | Significance of Ambient Temperature Control for Highly Reproducible Layered Perovskite Light-Emitting Diodes. ACS Photonics, 2020, 7, 2489-2497. | 6.6 | 15 |
| 31 | Organic–inorganic hybrid semiconductor thin films deposited using molecular-atomic layer deposition (MALD). Journal of Materials Chemistry C, 2016, 4, 2382-2389. | 5.5 | 14 |
| 32 | Bismuth Doping Alters Structural Phase Transitions in Methylammonium Lead Tribromide Single Crystals. Journal of Physical Chemistry Letters, 2021, 12, 2749-2755. | 4.6 | 14 |
| 33 | Effect of metal/bulk-heterojunction interfacial properties on organic photovoltaic device performance. Journal of Materials Chemistry A, 2014, 2, 15288. | 10.3 | 11 |
| 34 | Role of Contact Injection, Exciton Dissociation, and Recombination, Revealed through Voltage and Intensity Mapping of the Quantum Efficiency of Polymer:Fullerene Solar Cells. Journal of Physical Chemistry C, 2016, 120, 10146-10155. | 3.1 | 11 |
| 35 | Controlling Spatial Crystallization Uniformity and Phase Orientation of Quasiâ€2D Perovskiteâ€Based Lightâ€Emitting Diodes Using Lewis Bases. Advanced Materials Interfaces, 2020, 7, 1901860. | 3.7 | 11 |
| 36 | Revealing lattice and photocarrier dynamics of high-quality MAPbBr3 single crystals by far infrared reflection and surface photovoltage spectroscopy. Journal of Applied Physics, 2019, 125, 025706. | 2.5 | 9 |

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| 37 | Relating Nongeminate Recombination to Charge-Transfer States in Bulk Heterojunction Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2015, 119, 19628-19633. | 3.1 | 8 |
| 38 | nâ€Type Doping Induced by Electron Transport Layer in Organic Photovoltaic Devices. Advanced Electronic Materials, 2017, 3, 1600458. | 5.1 | 8 |
| 39 | General method to synthesize ultrasmall metal oxide nanoparticle suspensions for hole contact layers in organic photovoltaic devices. MRS Communications, 2015, 5, 45-50. | 1.8 | 4 |
| 40 | Solution-deposited Al2O3 dielectric towards fully-patterned thin film transistors on shape memory polymer. , 2017, , . | | 4 |
| 41 | Structural Order: The Dominant Factor for Nongeminate Recombination in Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2017, 121, 9242-9248. | 3.1 | 2 |