# He Xi

List of Publications by Year
in descending order

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| 43 | 1,319 | 331259 | 377514 |
|---|---|---|---|
| papers | citations | 21 | 34 |
| | | h-index | g-index |

| 43 | 43 | 43 | 1959 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Intermediate Phaseâ€Assisted Sequential Deposition Toward 15.24%â€Efficiency Carbonâ€Electrode Cspbi<sub>2</sub>br Perovskite Solar Cells. Solar Rrl, 2022, 6, . | 3.1 | 13 |
| 2 | Interfacial Dipole poly(2-ethyl-2-oxazoline) Modification Triggers Simultaneous Band Alignment and Passivation for Air-Stable Perovskite Solar Cells. Polymers, 2022, 14, 2748. | 2.0 | 2 |
| 3 | Suppressing Halide Phase Segregation in CsPbIBr<sub>2</sub> Films by Polymer Modification for Hysteresis-Less All-Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 2868-2878. | 4.0 | 34 |
| 4 | Wide-Bandgap All-Inorganic CsPbIBr2 Top Cells With MoOx/Ag/TeO2 Composite Transparent Anode Towards Efficient Four-Terminal Perovskite/Si Tandem Solar Cells. IEEE Photonics Journal, 2021, 13, 1-8. | 1.0 | 1 |
| 5 | Simple and Convenient Interface Modification by Nanosized Diamond for Carbon Based All-Inorganic CsPbIBr<sub>2</sub> Solar Cells. ACS Applied Energy Materials, 2021, 4, 5661-5667. | 2.5 | 4 |
| 6 | Annealingâ€Free, Highâ€Performance Perovskite Solar Cells by Controlling Crystallization via Guanidinium Cation Doping. Solar Rrl, 2021, 5, 2100097. | 3.1 | 13 |
| 7 | Performance Enhancement of All-Inorganic Carbon-Based CsPbIBr2 Perovskite Solar Cells Using a Moth-Eye Anti-Reflector. Nanomaterials, 2021, 11, 2726. | 1.9 | 5 |
| 8 | Generic water-based spray-assisted growth for scalable high-efficiency carbon-electrode all-inorganic perovskite solar cells. IScience, 2021, 24, 103365. | 1.9 | 10 |
| 9 | High-Purity, Thick CsPbCl<sub>3</sub> Films toward Selective Ultraviolet-Harvesting Visibly Transparent Photovoltaics. ACS Applied Energy Materials, 2021, 4, 12121-12127. | 2.5 | 8 |
| 10 | All-Inorganic Two-Dimensional Ruddlesden-Popper Perovskite Cs2PbI2Cl2 Nanosheet Films for Self-Powered, Visible-Blind UV Photodetectors. , 2021, , . | | 0 |
| 11 | Recycling of FTO/TiO<sub>2</sub> Substrates: Route toward Simultaneously High-Performance and Cost-Efficient Carbon-Based, All-Inorganic CsPbIBr<sub>2</sub> Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 4549-4557. | 4.0 | 38 |
| 12 | Sacrificial additive-assisted film growth endows self-powered CsPbBr<sub>3</sub> photodetectors with ultra-low dark current and high sensitivity. Journal of Materials Chemistry C, 2020, 8, 209-218. | 2.7 | 28 |
| 13 | Boosting performance of perovskite solar cells with Graphene quantum dots decorated SnO2 electron transport layers. Applied Surface Science, 2020, 507, 145099. | 3.1 | 66 |
| 14 | Ultrawide Band Gap Oxide Semiconductor-Triggered Performance Improvement of Perovskite Solar Cells via the Novel Ga<sub>2</sub>O<sub>3</sub>/SnO<sub>2</sub> Composite Electron-Transporting Bilayer. ACS Applied Materials & Interfaces, 2020, 12, 54703-54710. | 4.0 | 26 |
| 15 | Suppressing intrinsic self-doping of CsPbIBr<sub>2</sub> films for high-performance all-inorganic, carbon-based perovskite solar cells. Sustainable Energy and Fuels, 2020, 4, 4506-4515. | 2.5 | 25 |
| 16 | Dual-Phase CsPbCl<sub>3</sub>â€“Cs<sub>4</sub>PbCl<sub>6</sub> Perovskite Films for Self-Powered, Visible-Blind UV Photodetectors with Fast Response. ACS Applied Materials & Interfaces, 2020, 12, 32961-32969. | 4.0 | 114 |
| 17 | Highly efficient bifacial CsPbIBr<sub>2</sub> solar cells with a TeO<sub>2</sub>/Ag transparent electrode and unsymmetrical carrier transport behavior. Dalton Transactions, 2020, 49, 6012-6019. | 1.6 | 11 |
| 18 | Transparent Ultrathin Metal Electrode with Microcavity Configuration for Highly Efficient TCO-Free Perovskite Solar Cells. Materials, 2020, 13, 2328. | 1.3 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Modulated Doubleâ€Passivation Strategy Toward Highly Efficient Perovskite Solar Cells with Efficiency Over 21%. Solar Rrl, 2019, 3, 1900291. | 3.1 | 12 |
| 20 | Efficient Ni/Au Mesh Transparent Electrodes for ITO-Free Planar Perovskite Solar Cells. Nanomaterials, 2019, 9, 932. | 1.9 | 23 |
| 21 | Benign Pinholes in CsPbIBr<sub>2</sub> Absorber Film Enable Efficient Carbon-Based, All-Inorganic Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 5254-5262. | 2.5 | 37 |
| 22 | Efficient NiOx Hole Transporting Layer Obtained by the Oxidation of Metal Nickel Film for Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 4700-4707. | 2.5 | 37 |
| 23 | Efficient planar perovskite solar cells with low-temperature atomic layer deposited TiO2 electron transport layer and interfacial modifier. Solar Energy, 2019, 188, 239-246. | 2.9 | 24 |
| 24 | Intermediate Phase Halide Exchange Strategy toward a High-Quality, Thick CsPbBr<sub>3</sub> Film for Optoelectronic Applications. ACS Applied Materials & Interfaces, 2019, 11, 22543-22549. | 4.0 | 34 |
| 25 | Performance enhancement of perovskite solar cells via material quality improvement assisted by MAI/IPA solution post-treatment. Dalton Transactions, 2019, 48, 5292-5298. | 1.6 | 8 |
| 26 | Enhancing material quality and device performance of perovskite solar cells via a facile regrowth way assisted by the DMF/Chlorobenzene mixed solution. Organic Electronics, 2019, 70, 300-305. | 1.4 | 11 |
| 27 | A sensitive pyridine-containing turn-off fluorescent probe for pH detection. Materials Letters, 2019, 236, 9-12. | 1.3 | 27 |
| 28 | Elucidating the Roles of TiCl<sub>4</sub> and PCBM Fullerene Treatment on TiO<sub>2</sub> Electron Transporting Layer for Highly Efficient Planar Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 1044-1053. | 1.5 | 57 |
| 29 | Efficient Bifacial Semitransparent Perovskite Solar Cells Using Ag/V<sub>2</sub>O<sub>5</sub> as Transparent Anodes. ACS Applied Materials & Interfaces, 2018, 10, 12731-12739. | 4.0 | 46 |
| 30 | Seawater splitting for hydrogen evolution by robust electrocatalysts from secondaryÂM (M = Cr, Fe,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.7 | 43 |
| 31 | Simulation study towards high performance transparent-conductive-oxide free perovskite solar cells using metal microcavity and optical coupling layer. IEEE Photonics Journal, 2018, , 1-1. | 1.0 | 6 |
| 32 | Improving Electron Extraction Ability and Device Stability of Perovskite Solar Cells Using a Compatible PCBM/AZO Electron Transporting Bilayer. Nanomaterials, 2018, 8, 720. | 1.9 | 34 |
| 33 | Efficient Semitransparent Perovskite Solar Cells Using a Transparent Silver Electrode and Four-Terminal Perovskite/Silicon Tandem Device Exploration. Journal of Nanomaterials, 2018, 2018, 1-8. | 1.5 | 7 |
| 34 | Alleviating hysteresis and improving efficiency of MA1â^'yFAyPbI3â^'xBrx perovskite solar cells by controlling the halide composition. Journal of Materials Science, 2018, 53, 16500-16510. | 1.7 | 10 |
| 35 | Performance Enhancement of Planar Heterojunction Perovskite Solar Cells through Tuning the Doping Properties of Hole-Transporting Materials. ACS Omega, 2017, 2, 326-336. | 1.6 | 72 |
| 36 | Efficient bifacial semitransparent perovskite solar cells with silver thin film electrode. Solar Energy Materials and Solar Cells, 2017, 170, 278-286. | 3.0 | 55 |

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|---|---|---|---|
| 37 | Enhanced efficiency of planar perovskite solar cells via a two-step deposition using DMF as an additive to optimize the crystal growth behavior. Journal of Materials Chemistry A, 2017, 5, 13032-13038. | 5.2 | 82 |
| 38 | High performance transient organic solar cells on biodegradable polyvinyl alcohol composite substrates. RSC Advances, 2017, 7, 52930-52937. | 1.7 | 22 |
| 39 | An acidic pH fluorescent probe based on TrÃ¶ger's base. RSC Advances, 2017, 7, 55577-55581. | 1.7 | 20 |
| 40 | Effects of Annealing Conditions on Mixed Lead Halide Perovskite Solar Cells and Their Thermal Stability Investigation. Materials, 2017, 10, 837. | 1.3 | 30 |
| 41 | Mixed-solvent-vapor annealing of perovskite for photovoltaic device efficiency enhancement. Nano Energy, 2016, 28, 417-425. | 8.2 | 114 |
| 42 | Efficient planar heterojunction solar cell employing CH<sub>3</sub>NH<sub>3</sub>PbI<sub>2+</sub><sub>x</sub>Cl<sub>1â^'</sub><sub>x</sub>mixed halide perovskite utilizing modified sequential deposition. Japanese Journal of Applied Physics, 2015, 54, 092301. | 0.8 | 3 |
| 43 | High-Efficiency (>14%) and Air-Stable Carbon-Based, All-Inorganic CsPbI<sub>2</sub>Br Perovskite Solar Cells through a Top-Seeded Growth Strategy. ACS Energy Letters, 0, , 1500-1510. | 8.8 | 106 |