# Bin Ding

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/860266/publications.pdf

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|---|---|---|---|
| 27<br>papers | 1,299<br>citations | 471509<br>17<br>h-index | 526287<br>27<br>g-index |
| 28<br>all docs | 28<br>docs citations | 28<br>times ranked | 1757<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Molecular Engineering of Thienyl Functionalized Ullazines as Holeâ€Transporting Materials for Perovskite Solar Cells. Solar Rrl, 2022, 6, . | 5.8 | 5 |
| 2 | Mixed cation 2D perovskite: a novel approach for enhanced perovskite solar cell stability. Sustainable Energy and Fuels, 2022, 6, 2471-2477. | 4.9 | 9 |
| 3 | Halide exchange in the passivation of perovskite solar cells with functionalized ionic liquids. Cell Reports Physical Science, 2022, 3, 100848. | 5.6 | 9 |
| 4 | Single-crystalline TiO2 nanoparticles for stable and efficient perovskite modules. Nature Nanotechnology, 2022, 17, 598-605. | 31.5 | 121 |
| 5 | Triarylamine-Functionalized Imidazolyl-Capped Bithiophene Hole Transporting Material for Cost-Effective Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 22053-22060. | 8.0 | 8 |
| 6 | Anion Exchangeâ€Induced Crystal Engineering via Hotâ€Pressing Sublimation Affording Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000729. | 5.8 | 6 |
| 7 | Cut from the Same Cloth: Enamine-Derived Spirobifluorenes as Hole Transporters for Perovskite Solar Cells. Chemistry of Materials, 2021, 33, 6059-6067. | 6.7 | 7 |
| 8 | Engineering long-term stability into perovskite solar cells via application of a multi-functional TFSI-based ionic liquid. Cell Reports Physical Science, 2021, 2, 100475. | 5.6 | 25 |
| 9 | Expanded Phase Distribution in Low Average Layerâ€Number 2D Perovskite Films: Toward Efficient Semitransparent Solar Cells. Advanced Functional Materials, 2021, 31, 2104868. | 14.9 | 17 |
| 10 | Dopantâ€Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. Angewandte Chemie, 2021, 133, 20652-20660. | 2.0 | 6 |
| 11 | Dopantâ€Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. Angewandte Chemie - International Edition, 2021, 60, 20489-20497. | 13.8 | 56 |
| 12 | Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. Nature Communications, 2021, 12, 6394. | 12.8 | 98 |
| 13 | Greatly enhanced power conversion efficiency of hole-transport-layer-free perovskite solar cell via coherent interfaces of perovskite and carbon layers. Nano Energy, 2020, 77, 105110. | 16.0 | 31 |
| 14 | (C<sub>6</sub>H<sub>5</sub>NH<sub>3</sub>)BiI<sub>4</sub>: a lead-free perovskite with >330 days humidity stability for optoelectronic applications. Journal of Materials Chemistry A, 2019, 7, 15722-15730. | 10.3 | 33 |
| 15 | Green Solution-Processed Tin-Based Perovskite Films for Lead-Free Planar Photovoltaic Devices. ACS Applied Materials & Interfaces, 2019, 11, 3053-3060. | 8.0 | 27 |
| 16 | Highly stable carbon-based perovskite solar cell with a record efficiency of over 18% via hole transport engineering. Journal of Materials Science and Technology, 2019, 35, 987-993. | 10.7 | 123 |
| 17 | Cost effective perovskite solar cells with a high efficiency and open-circuit voltage based on a perovskite-friendly carbon electrode. Journal of Materials Chemistry A, 2018, 6, 8271-8279. | 10.3 | 57 |
| 18 | Low-temperature SnO<sub>2</sub>-modified TiO<sub>2</sub> yields record efficiency for normal planar perovskite solar modules. Journal of Materials Chemistry A, 2018, 6, 10233-10242. | 10.3 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | (C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>NH<sub>3</sub>)<sub>2</sub>CuBr<sub>4</sub>: A Lead-Free, Highly Stable Two-Dimensional Perovskite for Solar Cell Applications. ACS Applied Energy Materials, 2018, 1, 2709-2716. | 5.1 | 73 |
| 20 | Excellent Stability of Perovskite Solar Cells by Passivation Engineering. Solar Rrl, 2018, 2, 1800088. | 5.8 | 61 |
| 21 | Material nucleation/growth competition tuning towards highly reproducible planar perovskite solar cells with efficiency exceeding 20%. Journal of Materials Chemistry A, 2017, 5, 6840-6848. | 10.3 | 149 |
| 22 | Ultra-high open-circuit voltage of perovskite solar cells induced by nucleation thermodynamics on rough substrates. Scientific Reports, 2017, 7, 46141. | 3.3 | 71 |
| 23 | Fast Drying Boosted Performance Improvement of Low-Temperature Paintable Carbon-Based Perovskite Solar Cell. ACS Sustainable Chemistry and Engineering, 2017, 5, 9758-9765. | 6.7 | 35 |
| 24 | Realizing full coverage of perovskite film on substrate surface during solution processing: Characterization and elimination of uncovered surface. Journal of Power Sources, 2016, 320, 204-211. | 7.8 | 18 |
| 25 | Facile and Scalable Fabrication of Highly Efficient Lead Iodide Perovskite Thin-Film Solar Cells in Air Using Gas Pump Method. ACS Applied Materials & Interfaces, 2016, 8, 20067-20073. | 8.0 | 88 |
| 26 | Preparation of flexible perovskite solar cells by a gas pump drying method on a plastic substrate. Journal of Materials Chemistry A, 2016, 4, 3704-3710. | 10.3 | 87 |
| 27 | Interfacial and compositional Engineering to Afford Efficient and Stable Perovskite Solar Cells and Modules. , 0, , . | | 0 |