# Cheng Bi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10486519/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 22 papers | 10,348 citations | 361413 20 h-index | 713466 21 g-index |
| 22 all docs | 22 docs citations | 22 times ranked | 10476 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Origin and elimination of photocurrent hysteresis by fullerene passivation in CH3NH3PbI3 planar heterojunction solar cells. Nature Communications, 2014, 5, 5784. | 12.8 | 2,531 |
| 2 | Solvent Annealing of Perovskiteâ€Induced Crystal Growth for Photovoltaicâ€Device Efficiency Enhancement. Advanced Materials, 2014, 26, 6503-6509. | 21.0 | 1,527 |
| 3 | Giant switchable photovoltaic effect in organometal trihalide perovskite devices. Nature Materials, 2015, 14, 193-198. | 27.5 | 1,372 |
| 4 | Non-wetting surface-driven high-aspect-ratio crystalline grain growth for efficient hybrid perovskite solar cells. Nature Communications, 2015, 6, 7747. | 12.8 | 1,336 |
| 5 | Efficient, high yield perovskite photovoltaic devices grown by interdiffusion of solution-processed precursor stacking layers. Energy and Environmental Science, 2014, 7, 2619-2623. | 30.8 | 1,154 |
| 6 | Understanding the formation and evolution of interdiffusion grown organolead halide perovskite thin films by thermal annealing. Journal of Materials Chemistry A, 2014, 2, 18508-18514. | 10.3 | 276 |
| 7 | Airâ€Stable, Efficient Mixedâ€Cation Perovskite Solar Cells with Cu Electrode by Scalable Fabrication of Active Layer. Advanced Energy Materials, 2016, 6, 1600372. | 19.5 | 275 |
| 8 | Doped hole transport layer for efficiency enhancement in planar heterojunction organolead trihalide perovskite solar cells. Nano Energy, 2015, 15, 275-280. | 16.0 | 268 |
| 9 | Stabilized Wide Bandgap MAPbBr<sub>x</sub>I<sub>3â€“x</sub> Perovskite by Enhanced Grain Size and Improved Crystallinity. Advanced Science, 2016, 3, 1500301. | 11.2 | 229 |
| 10 | The Functions of Fullerenes in Hybrid Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 782-794. | 17.4 | 217 |
| 11 | Efficient Flexible Solar Cell based on Compositionâ€Tailored Hybrid Perovskite. Advanced Materials, 2017, 29, 1605900. | 21.0 | 184 |
| 12 | An Ultravioletâ€toâ€NIR Broad Spectral Nanocomposite Photodetector with Gain. Advanced Optical Materials, 2014, 2, 549-554. | 7.3 | 183 |
| 13 | Interfacial electronic structure at the CH3NH3PbI3/MoOx interface. Applied Physics Letters, 2015, 106, . | 3.3 | 152 |
| 14 | Spontaneous Passivation of Hybrid Perovskite by Sodium Ions from Glass Substrates: Mysterious Enhancement of Device Efficiency Revealed. ACS Energy Letters, 2017, 2, 1400-1406. | 17.4 | 143 |
| 15 | Lowâ€Temperature Fabrication of Efficient Wideâ€Bandgap Organolead Trihalide Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1401616. | 19.5 | 134 |
| 16 | Thin-film semiconductor perspective of organometal trihalide perovskite materials for high-efficiency solar cells. Materials Science and Engineering Reports, 2016, 101, 1-38. | 31.8 | 117 |
| 17 | Electronic structures at the interface between Au and CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>. Physical Chemistry Chemical Physics, 2015, 17, 896-902. | 2.8 | 82 |
| 18 | Distinct Exciton Dissociation Behavior of Organolead Trihalide Perovskite and Excitonic Semiconductors Studied in the Same System. Small, 2015, 11, 2164-2169. | 10.0 | 78 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Electronic structure evolution of fullerene on CH3NH3PbI3. Applied Physics Letters, 2015, 106, . | 3.3 | 44 |
| 20 | Surface analytical investigation on organometal triiodide perovskite. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, . | 1.2 | 43 |
| 21 | Perovskite Solar Cells: Lowâ€Temperature Fabrication of Efficient Wideâ€Bandgap Organolead Trihalide Perovskite Solar Cells (Adv. Energy Mater. 6/2015). Advanced Energy Materials, 2015, 5, . | 19.5 | 2 |
| 22 | Engineering Crystalline Grain of Hybrid Perovskites for High Efficiency Solar Cells and Beyond. , 2015, , . | | 1 |