
Do perovskite solar cells with CuSCN hole extraction layers yield stabilized efficiencies?
M. (2017). Perovskite solar cells with CuSCN hole extraction layers yield stabilized efficiencies greater than 20%. Science,768-771. 358

What is the step voltage of a solar cell?
The step voltage was fixed at 50 mVand the delay time was 50 ms. The light-soaking stability was tested in a solar cell light resistance test system (Model BIR-50,Bunkoh-Keiki Co.,LTD) equipped with a Class AAA solar simulator; <420 nm UV light was cut off with an optical filter.

Can low-temperature processing improve the operational stability of high-efficiency perovskite solar modules?
Here, we intro-duce a low-temperature processing strategy to increase the operational stabil-ity of high-efficiency perovskite solar modules by engineering low-dimensional diffusion barriers, reducing the unwanted interfacial diffusion of ions by 103-107 times in magnitude.

Semantic Scholar profile for Xudong Zhao, with 160 highly influential citations and 241 scientific research papers.

Study on a novel solar light concentration and transmission system for applications in light-driven air dehumidification systems (2025) Journal Article Xu, X., Ma, X., Zhao, X., Zhou, C., & Li, J. (2025). ...

To enhance solar utilization at the thermo-catalytic interface, a novel energy-harvesting method was developed by integrating thermal catalysis with a thermoelectric generator and phase ...

Xudong Zhao, Professor, Energy and Environmental Institute, University of HulI, Whose focus is around sustainable building services, renewable energy and energy efficiency technologies.

<p>Solar energy resource and its global distribution.- Solar heating, cooling and power generation - current profiles and future potentials.- Heat pipe and loop heat pipe technologies and their ...

Xudong Zhang"s 3 research works with 297 citations and 1,814 reads, including: Research of an active and

reactive power coordinated control method for photovoltaic inverters to improve power ...

Perovskite solar cell has advanced rapidly with power conversion efficiency exceeding 24%, which makes it a promising candidate for a high-performance, low-cost photovoltaic technology.

The fundamental equations governing the transient processes of solar transmission, heat transfer, fluid flow and photovoltaic (PV) power generation were appropriately integrated to address the energy ...

Biography Xudong Zhang received the B.S. and M.S. degrees in electric engineering from the School of Electrical Engineering, Southeast University, Nanjing, China, in 2013 and 2017, ...

This chapter introduces various solar thermoelectric technologies including micro-channel heat pipe evacuated tube solar collector incorporated thermoelectric power generation system, solar ...

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