

4 ???· The integrated current densities of the front and rear cells of Ni-based (Sn-based) tandems were 16.92 (16.87) mA cm⁻² and 16.73 (16.46) ... Monolithic all-perovskite tandem ...

A monolithic all-perovskite tandem solar cell with 2-T, 3-T and 4-T architecture integrated. Author links open overlay panel Yanqing Yao a b 1, Feng Lv a 1, ... The integrated ...

2.2 Monolithic 2-terminal PVK/Si tandem solar cell. The monolithic 2-terminal (2T) tandem solar cell has the advantage of less parasitic absorption, as it is a simple integrated type without additional glass substrate ...

This work presents the design principles for and the demonstration of a highly efficient integrated solar flow battery device with a record solar-to-output electricity efficiency. ...

Here, we present a monolithically integrated solar flow battery device that builds on III-V solar cells and organic redox species.

The monolithic integration of photoelectrochemical solar energy conversion and electrochemical energy storage offers an efficient and compact approach toward practical solar energy ...

Perovskite/c-Si tandem solar cell (TSC) has gradually become the hottest research topic in photovoltaic field for global carbon neutrality. Here we review the recent ...

Organic/inorganic metal halide perovskites attract substantial attention as key materials for next-generation photovoltaic technologies due to their potential for low cost, high ...

Here, we present a monolithically integrated solar flow battery device that ...

Furthermore, we integrated our two-step processed 1.73 eV, 1.57 eV, and 1.23 eV perovskite absorbers into monolithic all-perovskite triple-junction solar cells.

Keeping track of solar cells applied to MEMS power supply, a process based on SOI substrates has been proposed for the integration of power sources, circuits and MEMS ...

Schematic description of monolithic perovskite tandem solar cells with bottom cells made from a) either polished or textured silicon, b) nano-rough CIGS, or c) low band gap ...

Monolithic integration of perovskite-perovskite-organic subcells yields a triple-junction solar cell with a record open-circuit voltage of 3.03 V and a power conversion ...

Monolithic integrated solar cell

Further, monolithic integration of the EDL-MPNC supercapacitor with an optimized, large-area, and high-efficiency (12.5%) ... Table S4, Figure S11, Supporting ...

We obtain a PCE of 21.1% for 1.22-eV narrow-bandgap solar cells. We fabricate monolithic all-perovskite tandem cells with certified PCEs of 24.8% for small-area devices ...

+ Integrated current densities from the EQE spectra up to 20.27 mA cm^{-2} for the top and 19.77 mA cm^{-2} for the bottom cell are measured, ... Furthermore, we simulate a monolithic tandem solar cell by using electrical parameters from ...

A monolithic perovskite/CIGS tandem solar cell achieved a 22.43% efficiency, and unencapsulated devices under ambient conditions maintained 88% of their initial ...

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