Title: Heterogeneous solar cell assembly
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Homogeneous distribution and covalent binding mode of SAM monolayers are critical to improving interfacial property and reducing interfacial ...

NASA researchers have developed a novel process for assembling thin-film solar cells into larger solar arrays. Current methods for solar array manufacturing ...

Recently, above or near 30% silicon tandem solar cell has been demonstrated, showing the promise of achieving high-efficiency and low-cost solar cells via silicon tandem. This paper ...

In this study, we synthesized a series of self-assembling hole-transport molecules, namely, BPC-M, BPC-Ph, and BPC-F, to investigate the mechanism within self-assembling ...

A dual-beam focused ion beam (FIB, Helios 600i, FEI) combined with SEM was used to prepare transmission electron microscope (TEM) samples of the perovskite solar cells.

NASA researchers have developed a novel process for assembling thin-film solar cells into larger solar arrays. Current methods for solar array manufacturing depend on time-consuming, manual assembly ...

The chapter provides a comprehensive discussion on 2D heterostructures that find application in solar cell technology.

Homogeneous distribution and covalent binding mode of SAM monolayers are critical to improving interfacial property and reducing interfacial losses, which can be achieved through ...

Here we employ a cross-linkable co-SAM to enhance the conformational stability of hole-selective SAMs against external stresses, while suppressing the formation of defects and voids in ...

The strategies of heteroatomic substitution and configuration modulation in self-assembled materials (SAMs) are promising to advance perovskite solar cells (PSCs).

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