Title: Heterogeneous solar cell assembly
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Self-assemble monolayers (SAMs) have become state-of-the-art hole-selective contacts for high-efficiency perovskite-based solar cells due to their easy processing, ...

This article comprehensively reviews the approaches of molecular assembly engineering employed in the construction of the heterogeneous junctions to improve their ...

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, ...

This paper reviews the recent progress of integrating solar cell with other mainstream solar cell materials. The first part of this review focuses on the integration of ...

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

Here we employ a cross-linkable co-SAM to enhance the conformational stability of hole-selective SAMs against external stresses, ...

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 ...

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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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