
Here, we describe single-junction GaInAs solar cell devices grown by organometallic vapor phase epitaxy (OMVPE) directly on spalled Ge (hereafter referred to as "sp-Ge") substrates that ...

Germanium plays an important role in pushing the limits of solar cell performance. While this material has some drawbacks, such as its manufacturing costs or toxicity, it also ...

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In this paper, we report the development of single crystalline-like germanium thin films on inexpensive glass substrates for high-efficiency, low-cost photovoltaics.

Researchers have made a key advance in thin-film solar cell technology by rethinking one of its most problematic regions: the interface between the light-absorbing ...

As a semiconductor, germanium possesses a high electron mobility, which contributes significantly to its ability to convert sunlight into electrical energy efficiently. This ...

We report on the fabrication and characterization of Ge solar cells on glass realized by layer transfer and epitaxial regrowth. These devices exhibit typical conversion efficiency ...

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