
In this study, we have evaluated the performance parameters of semi-transparent perovskite tandem solar cells and used these parameters (see Table 1) to simulate ...

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In this work, we address these issues by employing ultrathin glass (UTG) substrates, which provide moisture impermeability while retaining flexibility. Additionally, we introduce a ...

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Most researchers have recently been drawn to perovskite solar cells because of their high absorption and customizable bang-gap. It has a high open circuit voltage as well as efficiency ...

In this work, we combine thin-film perovskite-based photovoltaics, a promising PV technology due to unique optoelectronic properties, with optimized laser-induced micro ...

Through comprehensive investigation, two perovskites, MAPbI 3 and MAPbBr 3, are examined for their respective advantages of high PCE and transparency. A series of ...

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We study the effect of changing volume fraction and glass layer thickness on transmittance. It is obvious that nanoparticles and perovskite can improve transmission while lowering or ...

Here, the structure of leak leaves is replicated in cellulose-based films, achieving optical transmittance and hydrophobicity for self-cleaning perovskite solar cells.

Perovskite has recently garnered significant attention as a promising semiconductor for optoelectronic applications and particularly for solar cells. In various applications, solar ...

The ARCs boost the transmittance of solar glass and photocurrent, while IOE excels in light absorption, perovskite crystallinity and alleviating angle dependence.

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