

Serious open-circuit voltage ( $V_{oc}$ ) loss originating from nonradiative recombination and mismatch energy level at  $TiO_2$ /perovskite buried interface dramatically limits the photovoltaic ...

Environment-friendly protic amine carboxylic acid ionic liquids (ILs) as solvents is a significant breakthrough with respect to traditional highly coordinating and toxic solvents in achieving ...

PDF | On Aug 15, 2023, Xiao Wang and others published Development of passivating edge shingle modules with right cut, new loss evaluation and liquid-based edge passivation strategy ...

The passivation threshold is defined as the limit concentration of oxidant at injection below which there is no silica on the liquid silicon surface and beyond which silica ...

This passivation-liquid-based method can be easily integrated into the current production line and thus solve the problem of efficiency losses. This paper reviews ... module technology in the PV ...

Material instability issues, especially moisture degradation in ambient operating environments, limit the practical application of hybrid perovskite in photovoltaic and light-emitting devices. ...

Based on the concept of the "Liquid-based Edge Passivation Strategy (LEPS)"- developed in this work, using a four-sub-cell configuration shingle mini-module, we finally achieved the following ...

Despite demonstrating exceptional photoluminescence quantum yield (PLQY) properties in passivated perovskite films, some of these amine-based molecular passivation strategies have yet to be proven effective in ...

PV performance of PCSs (Figure 1). Meanwhile, a deficit of the pyridine resulted in the inefficient perovskite passivation, most likely owing to the deprotonation of OA cations, in addition to the ...

An international team of researchers used large-area perovskite films treated with liquid crystals additives to make photovoltaic modules with a certified stabilized efficiency of ...

The passivation quality at the interface between liquid-phase crystallized silicon (LPC-Si) and a dielectric interlayer (IL) was investigated in terms of the defect state density at ...



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