Treatment measures for alkali return of photovoltaic brackets

The advantages of alkali metals as additives in PSCs have been extensively studied, but the mechanism behind their beneficial effects was unclear. Our systematic study delved into the ...

The K2S-PDT demonstrated by ALD proposed in this study not only achieves efficiency enhancement comparable to traditional KF-PDT but also integrates the processes of alkali metal doping and buffer ...

In this work, we demonstrate a universal technique to suppress the incident I 2 in the halide precursor solution by employing alkaline, wherein iodine can be effectively eliminated via a...

This paper aims to analyze the wind flow in a photovoltaic system installed on a flat roof and verify the structural behavior of the photovoltaic panels mounting brackets.

Here, the authors construct alkaline environments for antisolvents to promote their hydrolysis into conductive surface capping, enabling a certified solar cell efficiency of 18.3%.

In this work, we present the first systematic investigation of the effects of different alkali metal hydroxide treatments at the buried interface between the SnO 2 electron transport layer and ...

Our results provide new insight into the concentration-dependent photovoltaic performance of alkali metal cations in organic-inorganic halide perovskites.

In an effort to improve the quality of perovskite absorber layer, variations of techniques have been developed, which can be divided into two major types (the optimization of the precursor solution or ...

Abstract The electron transport layer (ETL) between the perovskite material and cathode plays an important role in planar perovskite solar cells. In this study, an alkali metal salt solution was ...

To this end, devices with different thicknesses of the CdS buffer layer and with and without a RbF-post-deposition treatment (PDT) of the absorber layer were fabricated.

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