
The EL darkening was primarily attributed to shunting caused by sodium ion migration from the glass into the active material of the cell, but the authors also noted other contributing ...

PID and power losses but very little is understood about its migration. In this paper we present our investigations of sodium ion migration in ethylene-vinyl acetate (E. A) and silicon through ...

The phenomenon of electromigration of atomic species during AES of glasses is discussed, and the induction time T i, before any migration occurs, is defined theoretically for ...

Sodium ions are commonly found in the glass used in solar panels, typically as a result of the composition of the glass material or contamination during manufacturing. Under ...

In this study, surface modification of soda-lime-silica (SLS) float glass via acid-leaching treatment (pH 1) was implemented to ...

In this study, surface modification of soda-lime-silica (SLS) float glass via acid-leaching treatment (pH 1) was implemented to understand the impact on ionic transport.

In this paper we evaluate the ion migration kinetics in encapsulant material under operational conditions. Analysis of Na migration profiles reveal the diffusivity constant and ...

Potential-induced degradation (PID) poses a critical threat to the long-term stability of perovskite solar cells (PSCs), driven by sodium ion ((text {Na}^ {text {+}})) migration from ...

In this study, we investigated the shunting mechanism (PID-s), mainly linked to the migration of sodium ions (Na+) from the glass to the cell junction. Soda-lime silicate glass, ...

Sodium ion migration in solar glass

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Different possibilities in sodium ion migration control are presented, considering the influence of glass composition on sodium diffusion and its chemical potential as well as ...

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