Title: Solar removal of phosphosilicate glass
Generated on: 2026-02-11 11:30:38

Photovoltaics International [1] has shown that this process does not completely remove the PSG and that additional cleaning, or "surface modification" will result in a higher efficiency.

First, a PSG glass layer is deposited on the front side using, for example, an APCVD tool (1). This layer later serves as a doping source for the for-mation of the FSF during the high temperature ...

The invention belongs to the field of solar cells, relates to a method for removing phosphosilicate glass, and in particular relates to a bath solution and a method for removing...

Manufacturing of Solar Cells - 3 (Emitter Diffusion and Phosphosilicate Glass Removal) Swati Sharma 658 subscribers Subscribed

MicroTech"s Orca-PSG - Phosphosilicate Glass Removal; Etch Batch Process For 1500 WPH Multi-Crystal Silicon Wafer Solar Process Line.

Several solar cells were fabricated following the "production line" route, by using a KOH aided PSG removal (with different etching times) instead of HF. The initial oxide removal and ...

First, the removal of phosphosilicate glass from the cell is easy to damage the PN junction on the front side of the phosphosilicate glass during the etching process, resulting in open circuit ...

Unfortunately, problems still exist, especially with respect to complete removal of the unreacted phosphorus, since a Si-P or other layer can remain on the surface and inhibits achievement of ...

tion of a bilayer in P-doped glass grown from POCl3 suggests the presence of phase separation. It has been found that for a wide temperature range (800 ~ 1200 °C), the PSG composition ...

Thinking about common fabrication lines in solar cell production, wet chemical phosphorus silicate glass (PSG) removal represents a process step with a high degree of automation and wafer ...

Web: https://www.legalandprivacy.eu