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Title: Solar glass and phosphorus

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The phosphosilicate glass (PSG), fabricated by tube furnace diffusion using a POCl_3 source, is widely used as a dopant source in the manufacturing of crystalline silicon solar cells.

This paper is intended to assist both the glass fabricator and end user by providing an overview of the most important properties pertaining to glass used in photovoltaic applications.

Abstract This study reports a versatile solution-based approach for preparing a phosphorus precursor for silicon (Si) doping in solar cell fabrication. Phosphorus incorporation ...

The phosphosilicate glass (PSG), fabricated by tube furnace diffusion using a POCl_3 source, is widely used as a dopant source in the manufacturing of crystalline silicon ...

A standardized model is presented for evaluating the efficiency of spectral converters integrated into PV glass, systematically assessing spectral absorption and ...

The development of advanced high-power-density laser-driven light source requires durable and color-tunable inorganic phosphor-in-glass film composites as color ...

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A 3-in-1 doping process for interdigitated back contact solar cells exploiting the understanding of co-diffused dopant profiles by use of PECVD borosilicate glass in a phosphorus diffusion.

The phosphosilicate glass (PSG), fabricated by tube furnace diffusion using a POCl_3 source, is widely used as a dopant source in the ...

P-doped lead-free glass frit is prepared by the low-temperature phosphorus diffusion method, which solves the problem of low doping efficiency caused by phosphorus ...

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