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Title: Advanced performance of double-sided double-glass components

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In recent years, with the rapid development of the photovoltaic industry, double glass module as a high reliability and high weather resistance product is favored by many PV manufacturers.

To enable greater architectural freedom, improve occupant comfort, reduce maintenance needs, and address alternative goals like sound attenuation, new ...

Overall, double-skin facades depend heavily on external conditions (solar radiation, external temperature, etc.) that directly influence internal ...

In this study the influence of the glass properties on the performance of double-skin facades has been modeled numerically.

Significant amount of near infrared light passes through bifacial cells. Double-glass structure shows a loss of ~ 1.30% compare to the glass/backsheet structure under STC measurements.

Therefore, platform technology is necessary to simplify window structures with minimal components for basic functions while adding specific ...

This study examines the electrical performance of single-cell mini-modules with a double-glass construction, encapsulated with EVA, both with and without edge-seal.

The objective of this work is to develop a high-performance double-side cooled (DSC) SiC-based power module with low junction-to-coolant thermal resistance and induced thermal stress.

Here, we introduce a method for the fabrication of double-sided metasurfaces through deep-UV lithography as a production-ready method for achieving high-quality metaoptics.



Advanced performance of double-sided double-glass components

In response to this need, several technologies integrated within conventional double-glazed (DG) systems for solar energy and daylight regulation were developed and investigated.

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