

Oct 1, 2024&ensp;&#0183;&ensp;This research aims to provide a comprehensive analysis of recent advancements in techniques used to enhance the production of double-slope solar stills. By conducting a ...

Dec 8, 2024&ensp;&#0183;&ensp;The antireflection (AR) coating applied to solar glass in photovoltaic modules has remained largely unchanged for decades, despite its well-documented lack of durability. ...

Excess heat and glare caused by the solar energy from the sun can be a major source of discomfort in some indoor ...

May 21, 2024&ensp;&#0183;&ensp;Lamination process and encapsulation materials for glass-glass PV module design Gianluca Cattaneo<sup>1</sup>, Antonin Faes<sup>1</sup>, Heng-Yu Li<sup>1,2</sup>, Federico Galliano<sup>1,2</sup>, Maria ...

The increase in the penetration rate of double glass promotes the expansion of the photovoltaic glass industry. Solar power generation in Europe ...

Dec 8, 2024&ensp;&#0183;&ensp;The antireflection (AR) coating applied to solar glass in photovoltaic modules has remained largely unchanged for decades, ...

Jan 15, 2017&ensp;&#0183;&ensp;Solar glass is exposed to mechanical contact cleaning and sand particle impact during operation in outdoor environments resulting in optical efficiency loss as well as ...

Sep 3, 2017&ensp;&#0183;&ensp;It seems that solar tubes/solar pipes/light pipes/sun tunnels represent the oldest systems that transported light into dark spaces [3]. The hidden chambers of the Egyptian ...

Jan 24, 2025&ensp;&#0183;&ensp;Encapsulation materials for perovskite solar cells were explored, focusing on their ability to block moisture, endure high ...

The increase in the penetration rate of double glass promotes the expansion of the photovoltaic glass industry. Solar power generation in Europe reached record levels this summer, with ...

2 days ago&ensp;&#0183;&ensp;Get to know everything about solar panel glass: the function, different types and the revolutionary concept of solar panel windows.

Apr 28, 2025&ensp;&#0183;&ensp;Advances in glass compositions, including rare-earth doping and low-melting-point oxides, further optimize photon absorption and conversion processes. In addition, luminescent ...

Apr 29, 2013&nbsp;&#0183;&nbsp;&nbsp;Keywords: passive solar shading; solar control in buildings; shading of the building; passive solar design features; shading of glass.

Mar 1, 2023&nbsp;&#0183;&nbsp;&nbsp;Inspired by ion-exchange technology as a means to chemical strengthening glass, alkali ions (K +) were, herein, superficially embedded into photovoltaic (PV) glass under ...

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