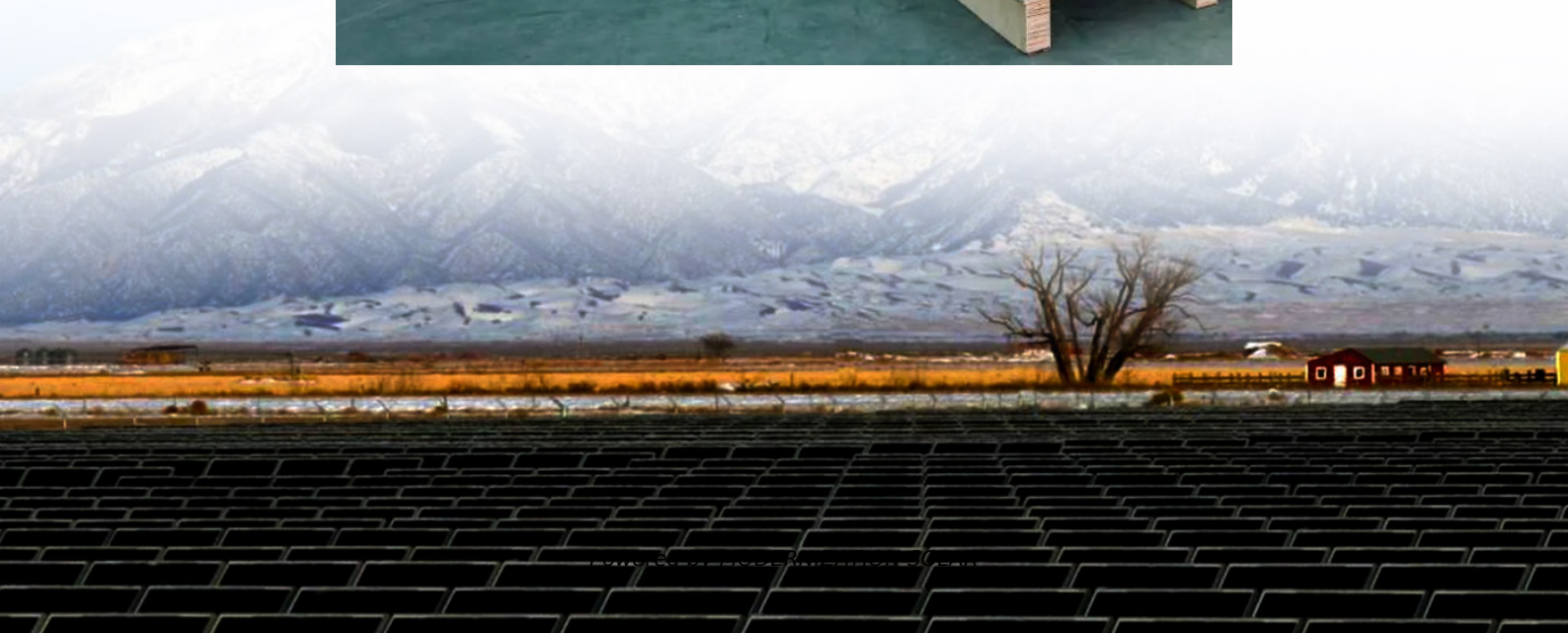


High-transmittance double-glass components





Overview

Which glass substrate has the highest transmission spectra?

The OTES-modified SiO₂ coating showed the highest transmission, around 94%, followed by the uncoated glass substrate with 91% transmission and the HS3 coating with a transmission of 87%. Fig. 4. Transmittance spectra of uncoated glass substrate, HS3 coating, and OTES modified SiO₂ coating on glass substrates.

Can double layer coating improve the optical properties of glass substrates?

The results demonstrate that the double layer coating is a promising solution for reducing reflection and improving the optical properties of glass substrates. This coating has potential value in various fields, particularly in the solar cell industry, where it can increase the efficiency and stability of solar cells.

What are the properties of transmittance with multilayer structures?

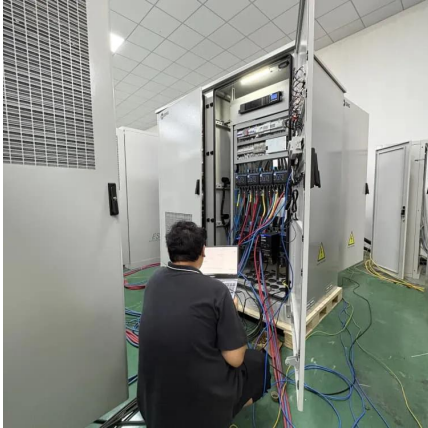
The properties of transmittance with multilayer structures comprising metal and dielectric layers at the visible spectrum are numerically and analytically discussed. Furthermore, by varying the thicknesses of these layers, it is possible to achieve a refined control over the passband, peak positions, and overall transmittance.

What is a multilayer structure with high transmittance and a metallic layer?

A schematic diagram of the multilayer structure featuring both high transmittance and a metallic layer is depicted in Figure 1 b. The multilayer structure is situated on a glass substrate, a common choice for supporting metal films in the visible spectrum.



High-transmittance double-glass components



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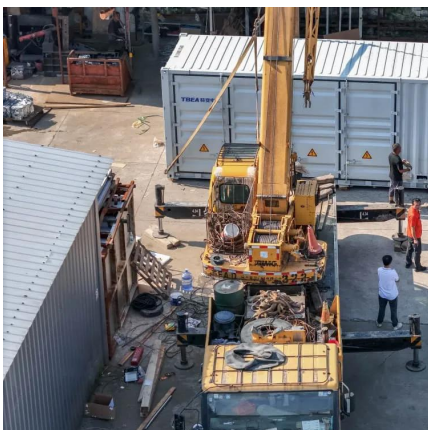
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