

Title: Solar glass luminescence

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Photoluminescent glass applies these unique properties to photonics, lighting, and photovoltaics by applying light down-conversion from UV to visible or near-infrared light, suitable for ...

Achieving 2050 climate targets requires scalable and efficient renewable energy solutions. Luminescent solar concentrators (LSCs) offer a promising approach for building-integrated ...

Luminescent solar concentrators (LSCs) are emerging as a promising solution, combining transparency with the ability to harvest solar energy.

The contamination on the glass cover can absorb and reflect a certain part of the sunlight irradiation, which can decrease the intensity of the light coming in through the glass cover.

The luminescent glass is used as a spectral integrator, which can absorb efficiently the sunlight and emit the specific luminescence (sensitivity to solar cell).

Luminescent solar concentrators (LSCs) offer a sustainable approach to power generation using fluorescent glasses, yet their green industrialization is impeded by the limited ...

Our approach to the development of transparent hybrid-type solar concentrators relies on the experimental optimization of electric energy output generated by the solar cells attached to the ...

These glasses contain luminescent centers that absorb incident sunlight and re-emit it at longer wavelengths while guiding the emitted photons via total internal reflection toward the edges of ...

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