

Luminous solar container glass

<div class="df_qntext">How are transparent solar concentrators fabricated?

The transparent LSC were fabricated via inorganic PbSe QDs glass. The inorganic PbSe QDs glass were prepared via a simple co-melting method. The η opt and PCE of LSC reached 10.13% and 1.59% under standard sunlight. Luminescent solar concentrators (LSCs) have become a seminal technology with the possibility of producing carbon-neutral buildings.

<div class="df_qntext">What is a luminescent solar concentrator?

Luminescent solar concentrators (LSCs) were first proposed in 1976 to optimize conventional PV systems and are increasingly recognized as promising concentrating devices. LSCs are generally composed of two parts: an optical waveguide material with a high refractive index and a luminophore with excellent optical properties .

<div class="df_qntext">What is Solar Photovoltaic Glass?

This article explores the classification and applications of solar photovoltaic glass. Photovoltaic glass substrates used in solar cells typically include ultra-thin glass, surface-coated glass, and low-iron (extra-clear) glass.

<div class="df_qntext">Can glass be used as a substrate for solar cells?

According to reports, Germany was the first country to use transparent flat glass as a substrate for developing solar cells. German scientists installed these plate-shaped solar cells as window glass on buildings. They could directly supply the captured electrical energy to occupants and feed excess electricity into the grid.

<div class="df_qntext">What is the OPT and PCE of luminescent solar concentrators?

The η opt and PCE of LSC reached 10.13% and 1.59% under standard sunlight. Luminescent solar concentrators (LSCs) have become a seminal technology with the possibility of producing carbon-neutral buildings. However, current LSCs developed based on organic or organic-inorganic strategies face limited long-term outdoor stability.

<div class="df_qntext">Can a melt-quenched luminescent glass be used as a large-area scintillator?

Luo, J.-B., Wei, J.-H., Zhang, Z.-Z., He, Z.-L. & Kuang, D.-B. A melt-quenched luminescent glass of an organic-inorganic manganese halide as a large-area scintillator for radiation detection.

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Luminous Glass A Study on the Optics Governing Luminescent Solar Concentrators and Optimization of Luminescent Materials through Combinatorial Gradient Sputter Deposition by Evert Pieter Jan Merckx



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Here we developed an inorganic PbSe QDs glass with a strong UV absorption, large Stokes shift, broadband excitation and emission, and high transparency in the visible range.

In this study, a series of Nb-Si-Na-K luminescent glasses were prepared by high-temperature melting quenching technique. By changing the proportion of each component of the ...

By changing the proportion of each component of the glass matrix, the structure of the glass network can be affected to regulate the luminous intensity and time. The existence of a large ...

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