

Solar glass overwintering





Overview

Can transparent windows reduce energy consumption during winter?

Indoor heating during winters accounts for a significant portion of energy consumed by buildings in regions of cold climate. Development of transparent coatings for windows that efficiently harvest solar energy can play a major role in reducing energy consumption and fuel costs incurred for winter heating.

Can solar windows reduce energy consumption?

Such a window will be able to simultaneously absorb solar energy for passive heating and prevent escape of heat from indoor by reflection. The benefit of such a technology for reduction in energy consumption would be significant for modern residential and commercial buildings, where windows form a large part of building surface.

Can transparent solar absorber coatings reduce energy consumption?

Development of transparent coatings for windows that efficiently harvest solar energy can play a major role in reducing energy consumption and fuel costs incurred for winter heating. In recent years, there has been a great research effort towards designing transparent solar absorber coatings using nanophotonic structures.

What is solar control glazing?

In summer, glazing constitutes the passage of solar energy flow; solar control glazing is used to mitigate this phenomenon. Solar control glass can be reflective or selective. The former performs the function of solar control while the latter also has characteristics of low emissivity.



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