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Title: Solar power generation to regulate indoor temperature

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In this regard, a solar-powered ventilation system is reported as a viable solution. This developed system operates based on the temperature conditions of the ceiling, where the fan speeds ...

Exploring renewable technologies with low carbon footprints for cooling and heating is required urgently. Here, we propose a smart radiative thermal management solution by developing a ...

WHAT TYPES OF SOLAR ENERGY SYSTEMS ARE BEST FOR TEMPERATURE CONTROL? When it comes to temperature regulation using solar energy, photovoltaic (PV) systems ...

During STPV power generation, absorbed solar energy that is not converted into electricity is transferred indoors in the form of heat. However, EnergyPlus does not simulate the transfer of heat ...

Photovoltaic driven air conditioning (PVAC) systems offer a promising solution for reducing grid dependency and carbon emissions in the building sector by coupling solar energy ...

To automatically adjust the temperature using solar energy, several innovative techniques and technologies can be employed. 1. Implement solar thermoregulation systems, 2. Utilize smart ...

Thus, in this study, ambient cold air during winter enters a room, where it flows over a photovoltaic (PV) panel surface, cooling the panel to improve its generation efficiency, and the ...

To address this challenge, energy-saving windows are emerging as a practical solution. These advanced windows not only provide thermal comfort but also help reduce reliance on ...

The results of this study indicate that constructing a green energy roof can decrease indoor temperatures by 1.5 °C and solar module temperatures by 1.6 °C while increasing power...



Solar power generation to regulate indoor temperature

Herein, we have successfully developed a transmission-type daytime radiation cooling system and designed a tandem structure that integrates daytime radiative cooling with solar cells.

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