
This review article compiles many studies that aim to improve the efficiency, coefficient of performance (COP), and decrease the power consumption of solar PV-powered ...

Solar-powered absorption refrigeration systems offer a sustainable and energy-efficient alternative to conventional cooling ...

Addressing these challenges, this study proposes and investigates a new solar-assisted ejector-compressor hybrid refrigeration system with subcooling storage coupled at ...

There are a few different options when it comes to solar cooling in Los Angeles. However, the most popular and, arguably, most effective solar air conditioning system is to combine a ...

Solar refrigeration systems are cooling and refrigeration solutions that utilize solar energy as their primary power source. These systems employ solar panels to capture sunlight ...

Solar-powered absorption refrigeration systems offer a sustainable and energy-efficient alternative to conventional cooling technologies by utilizing solar thermal energy ...

There are a few different options when it comes to solar cooling in Los Angeles. However, the most popular and, arguably, most effective solar ...

By offering a comprehensive numerical simulation, this research seamlessly integrates three crucial aspects: solar energy utilization, porous media dynamics, and the ...

Solar air conditioning, or "solar-powered air conditioning", refers to any air conditioning (cooling) system that uses solar power. This can be done through passive solar design, solar thermal ...

By combining solar thermal collectors with absorption refrigeration, these systems achieve more effective solar-to-cooling conversion, particularly in regions with abundant sunlight. ...

Owing to the environmental pollution and high costs associated with lead-acid batteries, this paper proposes a solar photovoltaic (PV) refrigeration system coupled with a ...

This novel system features characteristics such as low cost, high efficiency and eco-friendliness, offering a promising solution for solar refrigeration.

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