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Title: Solar power generation and refrigeration integrated machine

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Can solar-driven multi-generation systems have ejector refrigeration cycles?

The solar-driven multi-generation systems with ejector refrigeration cycles, as well as various recent studies on data-driven modeling of the ejector refrigeration cycle, are effectively discussed. Apart from this, the different challenges, along with the future outlooks of the solar-driven ejector refrigeration cycle, are also analyzed.

Is a hybrid multigeneration system based on a triple effect refrigeration system?

Mohammadi, K. et al. Thermo-economic analysis of a novel hybrid multigeneration system based on an integrated triple effect refrigeration system for production of power and refrigeration. *J. Clean. Prod.* 238, 117912 (2019).

Do ejector refrigeration cycles integrate with solar energy?

Therefore, this review would be helpful for newcomers to understand complete incite ejector refrigeration cycles along with their integration with solar energy, which is essential for the sustainable development of human civilization in the current energy scenario.

Which refrigerant is used in a solar ejector cooling system?

A solar ejector cooling system using refrigerant R141b. *Sol Energy.* 1998;64:223-6. Khattab NM, Barkat MH. Modelling the design and performance characteristics of a solar steam-jet cooling for comfort air conditioning. *Sol Energy.* 2002;73:257-67. Alexis GK, Karayiannis EK. A solar ejector cooling system using refrigerant R134a in the Athens area.

A novel solar-assisted multigeneration system is proposed and examined from a thermodynamic perspective, designed to simultaneously produce electricity, distilled water, and ...

This article introduces an innovative multipurpose system that integrates a solar power plant with a coastal wind farm to generate refrigeration for refinery processes and industrial air ...

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 refrigeration systems.

Solar power generation and refrigeration integrated machine

This paper proposes a novel solar-based polygeneration system for simultaneous power generation, desalination, hydrogen-production, and refrigeration....

The escalating demand for renewable energy sources has prompted a surge in interest. This study introduces a novel hybrid multigeneration configuration comprising a solar-assisted ...

Abstract. This study explores the use of solar energy to drive a novel multigeneration system that includes power, heating, cooling, and hydrogen production. The proposed system ...

Increasing the proportion of renewable energy is of paramount importance for all countries in the world. In this work, a novel multi-generation system is designed to fully utilize solar energy, ...

The renewable energy sector has witnessed a dramatic surge in interest, especially in the use of solar power. Solar energy is characterized by its abundant availability, minimal environmental footprint, ...

Solar-driven ejector cooling is a potential alternative for reducing overall energy usage. Hence, a review of solar-driven ejector refrigeration cycles, along with their integration with multi ...

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