

The present work aims to design and construct a semiconductor-based refrigerator and test its performance. The refrigerator was designed to cool  $4 \times 10^{-3} \text{ m}^3$  of water from a temperature of  $30^\circ$  to ...

: Solar clothing is a kind of clothing which usually uses sunlight as its energy source, converts solar energy into electricity based on the principle of photovoltaic power generation system ...

The demand for solar cold storage systems has led to the requirement for an efficient energy storage method to ensure non-interrupted operation and continuously maintain a low ...

design, a thermoelectric refrigerator operating under the principle of Peltier effect was fabricated. [3] Shuwang Chen, Jun Zuo and Dan Xie(Design of solar power semiconductor refrigerator) ...

with renewable green energy-solar energy as the energy source, are environmentally friendly, which makes it of great research significance. [1] In this paper, a system using solar ...

According to the working characteristic curve of semiconductor refrigeration chips, the maximum refrigeration capacity and the working current corresponding to the maximum refrigeration ...

Solar Energy; Sustainable Energy Systems; Wave and Tidal Energy; Wind Energy; Articles Research Topics Editorial ... Xie Y, Li W, Qian Y, Zhang Y and Zhang H (2022) Thermal ...

In the future, first, the influence of the structure of the semiconductor refrigeration device on the cooling effect of the TPCT will be investigated, and second, we will research and ...

