

Can a polar bear pavilion be used for solar energy exploitation?

Conclusions Solar energy exploitation by means of knitted fabrics and a specific sandwich pocket structure has been demonstrated with the experimental set-up of the polar bear pavilion. The experimental results show that even in a "northern country", air can be heated up to about 150 °C by this system.

Do polar bears emit solar energy?

On the other hand, the transmitted solar energy, which is absorbed by the black skin, is changed into an infra-red spectrum, but - and this is the interesting natural approach - this heat is not emitted to the ambient air, because the fur of the polar bear is a nearly perfect insulator ([12]).

How are polar bears made?

This bionic approach has led to a composite textile construction, which consists of three layers ([4, 11, 19]). The knitted fabrics, which represent the fur of the polar bear, are placed between a transparent foil and a black-absorbing foil, which represents the skin of the polar bear.

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POLAR BEAR FREEZING & STORAGE CORPORATION is a commercial cold storage company that leases out its facilities to food processors, importers, and exporters of frozen, chilled, and dry commodities at very reasonable costs. POLAR BEAR was incorporated with the Securities and Exchange Commission on November 17, 1993, with its" pioneer branch ...

Therefore, energy storage technology plays a vital role in bridging the discrepancy between energy consumption and supply. Generally, latent heat storage ... Individual salts of KCl and LiCl are purchased from Aladdin Chemical Reagent Co., Ltd., and their purities are more than 98 %. ... Polar bear optimization algorithm: meta-heuristic with ...

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