Pyramid-shaped solar generator

Lunar Cubit, the winner of the Land Art Generator Initiative, would be comprised of nine pyramids that are both beautiful and produce solar power for 250 homes. ... is a pyramid-shaped solar power ...

Three-Dimensional Mirror-Assisted and Concave Pyramid-Shaped Solar-Thermal Steam Generator for Highly Efficient and Stable Water Evaporation and Brine Desalination. ... generation performances and offers a new insight into the future development of highly efficient and easily deployable solar steam generator.

Semantic Scholar extracted view of "3D printed electrospun nanofiber-based pyramid-shaped solar vapor generator with hierarchical porous structure for efficient desalination" by Ye Liu et al.

tional single slope solar still will be suggested. One of them involved the changing of shape to the pyramid type, and the other one involved the changing of shape to the spherical type. 2.1. Modified solar still design with a pyramid shape The suggested solar still has a pyramid shape, and three collecting sides exposed to solar radiation ...

Using solar energy for freshwater generation presents an effective and economical solution to address water shortages. Here, we introduced a structural strategy involving the incorporation of fixed-shape inverted pyramid-shaped grooves onto the evaporator surface. This innovation approach integrated delignified wood and MXene-based photothermal material to establish an ...

The 3D concave pyramid-shaped solar-thermal architecture enables multiple solar light reflections to absorb more solar energy, while the 3D mirror-assisted solar light enhancement design can activate the solar-thermal energy conversion of the back side of the concave pyramid-shaped PCNF architecture to improve the solar-thermal energy ...

We describe here an electric generator capable of harvesting power from Earth"s electric field. The generator comprises a geometrically optimized square base pyramid-shaped antenna connected to a set of coils near the pyramid"s apex. The coils consist of a coil of high turn number (secondary coil) positioned coaxially within the primary coil; together, these function as a ...

Herein, for the first time, we demonstrate a highly efficient three-dimensional (3D) mirror-assisted and concave pyramid-shaped solar-thermal water evaporation system for high-yield and long-term ...

Propagation of electromagnetic waves inside the pyramids of Cheops at different lengths of radio waves (from 200 to 400 meters). The black rectangular position of the so-called King"s Chamber.

Herein, for thefirst time, we demonstrate a highly efficient three-dimensional (3D)mirror-assisted and concave

pyramid-shaped solar-thermal waterevaporation system for high-yield and long-term desalination of seawaterand brine water, which consists of a 3D concave pyramid-shaped solar-thermalarchitecture on the basis of polypyrrole-coated nonwoven fabrics (PCNFs),a 3D mirror ...

Although significant advances have been achieved in developing solar-driven water evaporators for seawater desalination, there is still room for simultaneously enhancing water evaporation efficiency, salt resistance, and utilization of solar energy. Herein, for the first time, we demonstrate a highly efficient three-dimensional (3D) mirror-assisted and concave ...

offer some scientific explanations on how pyramidal shapes may exhibit such extraordinary effects. FIRST PATENT ON A PYRAMID TECHNOLOGY . In 1949, Karl Drbal, a radio technician, filed a patent application in Czechoslovakia on pyramid technology. He found that razor blades stored immediately after use in a small

DOI: 10.1016/j.jclepro.2023.139956 Corpus ID: 265636118; Pyramid-shaped solar evaporator with high-efficient interfacial evaporation and salt harvesting capability @article{Li2024PyramidshapedSE, title={Pyramid-shaped solar evaporator with high-efficient interfacial evaporation and salt harvesting capability}, author={Yuefei Li and Jiyuan Zhu and ...

The 3D concave pyramid-shaped solar-thermal architecture enables multiple solar light reflections to absorb more solar energy, while the 3D mirror-assisted solar light enhancement design can activate the solar-thermal ...

For example, Li et al. prepared a pyramid-shaped solar evaporator. They demonstrated that an appropriate increase in the height of the evaporators can increase the evaporation area and reduce the heat loss to bulk water. ... 3D printed electrospun nanofiber-based pyramid-shaped solar vapor generator with hierarchical porous structure for ...

select article 3D printed electrospun nanofiber-based pyramid-shaped solar vapor generator with hierarchical porous structure for efficient desalination. ... Semitransparent organic solar cells with light utilization efficiency of 4% using fused-cyclopentadithiophene based near-infrared polymer donor. Jung Won Yoon, Hyemin Bae, Jonghee Yang ...

Using solar energy for freshwater generation presents an effective and economical solution to address water shortages. Here, we introduced a structural strategy involving the incorporation of fixed-shape inverted pyramid-shaped grooves onto the evaporator surface. This innovation approach integrated delignified wood and MXene-based photothermal ...

DOI: 10.1016/j.cej.2022.139402 Corpus ID: 252548429; 3D printed electrospun nanofiber-based pyramid-shaped solar vapor generator with hierarchical porous structure for efficient desalination

Pyramid-shaped solar generator

A 3D-printed pyramid-shaped electrospun nanofiber solar water evaporator was fabricated using a homogenized electrospun PAN/CNT nanofiber membrane. The model with a height of 2 cm was mainly used for the ...

Harvesting solar energy for vapor generation is an appealing technology that enables substantial eco-friendly applications to overcome the long-standing global challenge of water and energy crisis. Nonetheless, an undesirable low light utilization efficiency and large heat losses impede their practical use. Here, we demonstrate a typical design paradigm capable of ...

Apart from the explained studies, S.M. Parsa et al. [92] also conducted research on a pyramid-shaped solar still using thermoelectric heater to view exergy enhancement of the still. They reached a ...

A pyramid electric generator for harvesting the vibrational energies of Earth"s atomic oscillators according to the present invention comprises: (1) an antenna/waveguide that is geometrically optimized; (2) a secondary coil wound with an insulated conductor on a nonconductive coil form, the coil being attached electrically to the conducting surface of the antenna/waveguide such ...

Web: https://profbismed.pl