

Production of a complete set of 3d design solutions for the internal structure of solar containers

Consequently, the imaging results of the internal structure may exhibit significant errors compared to the actual target. To address these issues, we propose a modified 3D MLBP method ...

In conclusion, the developed sandwich-structured evaporator holds significant potential for clean water production and provides insights into the efficient structural design of solar evaporators.

From the perspective of structural design, solar evaporators are categorized into four structural types, including two-dimensional (2D) structure, three-dimensional (3D) structure, ...

In addition to more solar energy absorption during the solar movement, the faster saturation of the humidity (more than 90%) due to the space occupation is also an important factor for ...

The concept of 3D solar evaporator design makes it possible to achieve efficient solar desalination while free of suffering salt blockage, which is expected to resolve difficult problems in the ...

Meanwhile, the prepared 3D evaporator exhibits huge applied potential in the treatment and recycling of organic wastewater, especially the acid solution (pH = 1). The design ...

With the continuous optimization and innovation of 3D structural design by researchers, it is believed that 3D solar evaporators will play a greater role in practical applications in the future ...



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