Radiation range of solar container device

The invention relates to a receiving device (110) for solar radiation (112), having a container (200) for heating a heat transfer medium (210) in a solar thermal power plant, having an at least double-walled ...

Environmental parameters have been collected, i.e., solar radiation, surface temperature, and air temperature. Data analysis shows that the direct effect of solar radiation on the container surface ...

Storage of solar radiation is currently accomplished by coupling two separate devices,one that captures and converts the energy into an electrical impulse (a photovoltaic cell) and another that stores this ...

Solar cells are often the preferred choice of power for space applications. However, long-term operation of these spacecraft demands photovoltaic materials with high radiation tolerance. ...

By cascading four photonic crystals with photonic band gaps for different central wavelengths, the total reflection range of the SRD in the solar radiation band is broadened. It is found that the SRD can ...

The solar container can be used for short-term use at events, for longer use, for example over the summer months, or as a long-term solution. To cover the wide range of requirements, we make a ...

Still, research is needed for fouling resistance, scalable and low-cost materials, and devices for solar interfacial evaporation. Recent research focuses on the materials for evaporation ...

Five researchers affiliated with Nagoya University have been named in Clarivate"s Highly Cited Researchers List for 2025. This list recognizes researchers who demonstrate significant and ...

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