

Title: Solar tracking drying system

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Four different indirect type force convection solar dryer design concepts were presented. One design concept was chosen after a ...

Our solar dryer, assisted by a Parabolic Trough Concentrator (PTC) with a dual-axis solar tracker, stands out by harnessing the renewable and abundant energy of the sun to ...

This study experimentally evaluated the performance of a greenhouse dryer equipped with a parabolic trough solar collector (PTSC) with an air-fluidized, dual-axis solar tracking system ...

Drying involves two fundamental and simultaneous processes: the transfer of heat to evaporate the liquid and the transfer of mass as a liquid or vapor within the solid and as a ...

There are numerous ways to define the performance of a solar drying system such as thermal performance, drying kinetics, environmental aspects, economic evaluations, and quality of the ...

Thus, a triple-sided solar dryer (TSSD) integrated with intelligent airflow gating was developed to overcome these issues. This study evaluates the performance of a TSSD for ...

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