

A parametric analysis was conducted to examine the impact of key variables on the performance of the solar collectors using simple graphite and fullerene nanofluids, as well as hybrid ...

In the present work, a CFD model of the flat plate solar polymer collector was created in the CFD software Ansys CFX and validated by comparing it with experimental and simulation data available in ...

In response, this project aims to design a solar parabolic dish collector coupled with a TES system, utilizing specially engineered carbon bricks to enhance heat storage and retrieval ...

Abstract Flat plate solar collectors (FPSC) are used to harness solar energy, which is a renewable and clean source of energy. The major issue of the current time, like global warming, can be ...

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This numerical study investigates the effects of incorporating two carbon nanotubes, namely single-walled carbon nanotube (SWCNT)/water and multi-walled carbon nanotube ...

In light of this, the objective of this article is to present an overview of the utilization of carbon nanotubes (CNTs) for the aim of improving thermal performance in evacuated tube and flat plate solar thermal ...

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High absorptance in the solar spectrum (90%) was achieved with a carbon black coating on a transparent PMMA (polymethyl methacrylate) plate, and low emissivity in the black body ...

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Flat plate solar collector (FPSC) is extensively utilized for harness energy from renewable solar thermal energy, particularly for applications like water heating and thermal storage.

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