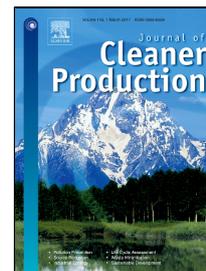


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Experimental and Numerical Investigation on the Optical and Thermal Performance of Solar Parabolic Dish and Corrugated Spiral Cavity Receiver

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Highlights:

- Experimental testing of solar prototyping solar dish collector was conducted.
- Thermal efficiency and exergetic efficiency of the different working fluids for solar spiral corrugated absorber were determined.
- A numerical model was used for estimating the energetic and exergetic performance of the collector in various operating cases.
- The effect of the helical conical receiver position on optical efficiency was investigated.

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