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Heat transfer analysis of a new volumetric based receiver for parabolic trough solar collector

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Man Fan, Hongbo Liang, Shijun You, Huan Zhang, Wandong Zheng, Junbao Xia

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Highlights

- A new volumetric based receiver was proposed for parabolic trough solar collector.
- A simplified heat transfer model was developed and verified to be accurate.
- > Thermal performance of the new, conventional and nanofluid receiver were compared.
- > Strategies for optimizing the new receiver were investigated and discussed.

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