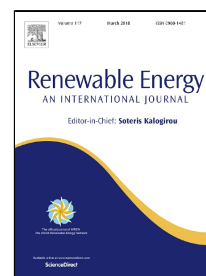


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Cyclic Thermal Performance Analysis of a Traditional Single-Layered and of a Novel Multi-Layered Packed-Bed Molten Salt Thermocline Tank

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HIGHLIGHTS

- Cyclic thermal performance of packed-bed thermocline tank is analyzed.
- Effects of thermocline on performance of thermocline tank are illustrated.
- The expanding and shortening effects on thermocline thickness are first reported.
- A novel multi-layered packed-bed molten salt thermocline tank is proposed.
- Great rise in useful energy and small drop in efficiency of novel tank are revealed.

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