

Novel open-sorption pipe reactor for solar thermal energy storage

Aydin, D., Casey, S. P., Chen, X., & Riffat, S. (2016). Novel "open-sorption pipe" reactor for solar thermal energy storage. *Energy Conversion and Management*, 121 ...

Novel "open-sorption pipe" reactor for solar thermal energy storage. 2016, *Energy Conversion and Management*. Show abstract. ... In this study, a novel sorption pipe reactor for ...

Traditional methods for TES (thermal energy storage) employ sensible and latent heat techniques. In recent years, STES (sorption thermal energy storage) systems are ...

Novel "open-sorption pipe" reactor for solar thermal energy storage. *Energy Convers.* ... Investigation of a household-scale open sorption energy storage system based on ...

An open sorption thermal energy storage system was proposed, and the experimental setup was constructed. A low regeneration temperature (80-100 °C) of the ...

In this study, a novel sorption pipe reactor for solar thermal energy storage is developed and experimentally investigated to fulfill this gap. The modular heat storage system ...

In this study, a novel sorption pipe reactor for solar thermal energy storage is developed and experimentally investigated to fulfill ... [Show full abstract] this gap. The modular heat storage ...

In the present study, an integrated solar-driven sorption energy storage unit was investigated under real climatic conditions in Famagusta, North Cyprus. Vermiculite-CaCl₂ ...

Recent advancements in sorption technology for solar thermal energy storage applications. ... Novel "open-sorption pipe" reactor for solar thermal energy storage. *Energy* ...

In this study, a novel sorption pipe reactor for solar thermal energy storage is developed and experimentally investigated to fulfill this gap. The modular heat storage system consists of ...

Aydin D, Casey SP, Chen X, Riffat S. Novel "open-sorption pipe" reactor for solar thermal energy storage. *Energy Conversion and Management*, 121 (2016) 321-334.

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Sorption technologies, which are considered mainly for solar cooling and heat pumping before, have gained a

lot of interests for heat storage of solar energy in recent years, ...

Aydin D, Casey SP, Chen X, Riffat S (2016) Novel "open-sorption pipe" reactor for solar thermal energy storage. Energy Convers Manag 121:321-334. Article Google Scholar ...

In the present chapter, an introduction about the concept of sorption TES technology is reported. The closed and open configurations are discussed and an overview on ...

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DOI: 10.1115/1.4030851 Corpus ID: 108756876; Energy Storage Start-up Strategies for Concentrated Solar Power Plants With a Dual-Media Thermal Storage System ...

Aydin D, Utlu Z, Kincay O. Thermal Performance Analysis of a Solar Energy Sourced Latent Heat Storage. Renewable and Sustainable Energy Reviews, 50(2015) 1213 ...

Aydin et al. [18] investigated a novel sorption pipe reactor for solar thermal energy storage. Results demonstrated that a fourfold increase of absolute humidity difference of air ...

Novel "open-sorption pipe" reactor for solar thermal energy storage. Energy Conversion and Management, 121: 321-334. Article Google Scholar Bi Y, Zang G, Qin L, Li H, ...

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