

عنوان مقاله:

Laboratory review of the function of a kind of agricultural crop dryer

محل انتشار:

اولین کنفرانس بین المللی علوم دریایی و جوی: محیط زیست، انرژی های تجدید پذیر (سال: 1396)

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خلاصه مقاله:

The performance of a solar drying system was studied experimentally in terms of the use of phase-shift energy storage materials. By comparing tests in the case of using and not using the storage materials, the kinetics of drying various materials was investigated. Experiments were conducted to study the effect of drying air discharge and solar collector level in different seasons in a year. The results were analyzed based on the conceptual expectations resulting from the principles of drying and transmission phenomena. The experiments showed that the most important parameter influencing the drying of warm air temperature is the fact that the effect of warm air movement regime is very small. The results of the experiment showed that in the fall season and in the presence of heat storage materials, the yield performance can be achieved in the same way as summer conditions and in the absence of storing materials.

کلمات کلیدی:

Solar energy, Solar drying system, Storage materials

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