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Recent Advances in Solar Energy Drying Systems

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Message from the Guest Editor

Drying is known to be energetically as an intensive process frequently used in different industries and agriculture. Introducing solar energy is proposed as a solution for an efficient method. To apply adequately solar drying it is important to explore two main axles: fundamentals of the process, such as studying the drying kinetics or the drying curves and the effect of the weather conditions. The second axle is investigating the design of the drying system, with keeping in mind the objective of having a good quality of the final product with a minimum cost.

The objective of this special issue is to investigate, but not limited to, the fundamental and the experimental studies of solar drying process for different products, such as food, wood, wastewater sludge, and using different technologies. A particular attention will be given to new and innovative solar drying methods in terms of design or new products. Also, special interest will be given to the studies dealing with energy and exergy efficiency.

Keywords

- design
- exergy efficiency
- energy efficiency
- fundamentals
- innovation
- technological development
- solar energy

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Message from the Editor-in-Chief

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