



Recent Advances in Solar Energy Drying Systems

Guest Editor:

Prof. Dr. Lyes Bennamoun

Department of Mechanical
Engineering, University of New
Brunswick, Fredericton, NB
E3B5A3, Canada

Deadline for manuscript
submissions:

closed (25 June 2024)

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 axes: fundamentals of the process, such as studying the drying kinetics or the drying curves and the effect of the weather conditions. The second axis 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





energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compindex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)