



energies



an Open Access Journal by MDPI

Advances in Heat Storage and Transformation Systems

Guest Editors:

Dr. Simona Bennici

CNRS, IS2M UMR 7361, Université
de Haute-Alsace, F-68100
Mulhouse, France

Dr. Mohamed Zbair

Mulhouse Institute of Materials
Science, IS2M - CNRS UMR 7361-
UHA, 3 rue Alfred Werner, 68093
Mulhouse, CEDEX, France

Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editors

Dear Colleagues,

The strategic transition towards a low-carbon and resilient energy mix pushes nations to set new targets. This goal can be reached, among other measures, by enhancing the utilization of under-exploited thermal energy resources, including combined heat and power facilities, industrial waste heat or biomass-fired boilers. The main barriers to their integration into buildings and heating networks are production timing, nominal power, temperature level, and even the location, which rarely match the requirements of grids driven on-demand.

In this context, thermal energy storage is a promising solution to achieve a sustainable energy management and to overcome the temporal and space mismatch between heat production and its delivery.

This Special Issue deals with the conception of materials, systems, and implementation issues connected to the development of efficient thermochemical heat storage systems. Topics of interest for publication include but are not limited to: thermochemical heat storage materials; solar heat storage; waste heat recovery; building applications; industrial and large scale applications; systems integration and optimization; economic analysis.



mdpi.com/si/48063

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 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 Compendex, 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)