Special Issue

Metal Hydrides Hydrogen Storage, Thermal Management, and Applications

Message from the Guest Editor

I am pleased to invite submissions to this Special Issue of *Energies* on the subject area of "Metal Hydrides Hydrogen Storage, Thermal Management, and Applications". Metal hydrides have been regarded as a promising solution to hydrogen energy storage thanks to their low storage pressure and high volumetric capacity. At the same time, however, they require an effective method to manage the heat associated with the exothermic/endothermic reactions. In line with the rapid development of hydrogen energy systems, advances in metal hydride hydrogen storage technology are required. The Special Issue will deal with advances in metal hydrides hydrogen storage, the cooling and heating of metal hydrides, and the utilization of waste heat (or cold). Topics of interest for publication include, but are not limited to, the following:

- Material development and characterization;
- Thermal conductivity of metal hydrides;
- Design of reactor vessels;
- Cooling and heating during hydrogen absorption and desorption;
- Use of waste heat

Guest Editor

Prof. Dr. Sunwoo Kim
Mechanical Engineering Department, University of Alaska Fairbanks, Fairbanks, AK 99775, USA

Deadline for manuscript submissions

closed (17 August 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/87459

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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)

MDPI