



energies



an Open Access Journal by MDPI

Future Challenges of Thermodynamic and Electrochemical Corrosion Analysis in Energy Storage Materials

Guest Editor:

Dr. Angel G Fernández

Chemical and Environmental
Engineering Department,
University of the Basque Country
(UPV/EHU), 20018 San Sebastian,
Spain

Deadline for manuscript
submissions:

closed (20 May 2024)

Message from the Guest Editor

Dear Colleagues,

This Special Issue will focus on recent advances in the thermodynamic and electrochemical corrosion properties of thermal energy storage materials at low, medium and high temperatures, and will address a wide range of applications, including building efficiency, renewable energy technologies or industrial waste heat recovery.

The scope of this Special Issue includes, but is not limited to, the following:

- The development of TES materials for sensible, latent and thermochemical energy storage systems;
- Advanced TES materials for concentrated solar power technology;
- Sorption and chemical reaction control;
- The simulation of thermodynamic properties of materials and coatings;
- Corrosion studies on TES systems and mitigation strategies;
- The development of tools for corrosion monitoring;
- The enhancement of the thermal properties of TES materials;
- Modelling and simulation of TES materials.



mdpi.com/si/190282

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
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)