Special Issue

Advances in Hydrogen Storage Technologies

Message from the Guest Editor

This Special Issue aims to compile and disseminate cutting-edge research and comprehensive reviews addressing the multifaceted aspects of hydrogen storage. We welcome original contributions and review articles that explore recent breakthroughs, ongoing challenges and future perspectives in this dynamic field. Topics of interest include, but are not limited to:

- Development of novel materials for hydrogen storage (e.g., metal hydrides, porous adsorbents, chemical hydrides, liquid organic hydrogen carriers).
- Design, modeling and optimization of hydrogen storage systems and integrated infrastructures.
- Advanced characterization techniques for storage materials and performance evaluation.
- Safety assessment, risk analysis and lifecycle analysis of hydrogen storage technologies.
- Hydrogen compatibility of materials, hydrogen-resistant materials and advanced sealing materials for hydrogen applications.
- Innovative concepts and hybrid systems for stationary and mobile storage applications.

We look forward to your valuable submissions.

Guest Editor

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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.

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