Special Issue

Hydrogen Economy in the Global Energy Transition

Message from the Guest Editor

The hydrogen economy is central to meeting global energy needs, fostering a transition from fossil fuels to renewable forms of energy. The hydrogen economy is the chain of production, distribution, and efficient utilization of hydrogen in various sectors, including transportation, industry, and power generation. Hydrogen can be produced using several different methods. The most common methods include steam methane reforming, electrolysis, and biomass gasification; however, some common challenges include expensive production methods, infrastructure development, and the need for large-scale renewable energy. In addition, there are concerns regarding storage and transportation, and safety is paramount. Despite these limitations, the hydrogen economy represents an effective option for a sustainable energy future.

This Special Issue is dedicated to original research and review articles focusing on the hydrogen economy.

Topics of special interest include but are not limited to:

- hydrogen economy
- hydrogen production
- hydrogen transportation
- hydrogen storage
- power-to-X
- market analysis
- energy/exergy analysis
- economic analysis

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Deadline for manuscript submissions

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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.

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