

Special Issue

Advances in Sustainable Hydrogen Production

Message from the Guest Editor

Production of low-carbon alternative fuels is an important pathway to combat climate change and control global warming. Sustainable production of low-carbon hydrogen accelerates the push towards carbon neutrality. Hydrogen can also be employed as a decarbonizing agent for heavy industries such as cement and steel, or as a storage medium for renewable electricity grids for better stability. This issue supports research on recent advances in all types of sustainable hydrogen production methods including biological and thermochemical hydrogen production, the role of hydrogen in energy transition, and also energy systems where hydrogen is produced and employed for better sustainability. Some of the topics covered in this issue (but not limited to) are as follows:

- The role of hydrogen in energy transition;
- Green hydrogen production technologies;
- Blue hydrogen production technologies;
- Biomass-based hydrogen production;
- Power to gas technology;
- Solar-based hydrogen production;
- Integrated hydrogen energy systems;
- Thermochemical water splitting cycles.

Guest Editor

Dr. Farid Safari
Oxford Institute for Energy Studies, 57 Woodstock Road, Oxford, UK

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

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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.

Editor-in-Chief

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

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