Special Issue

Hydrogen Production, Conversion and Use

Message from the Guest Editors

In the context of the decarbonisation of the modern industrial society to reach a sustainable future, hydrogen is able to play a key role in the energy and climate transition thanks to its favourable characteristics as an energy vector, a chemical carrier and feedstock, and an energy storage medium. The hydrogen value chain is complex and interconnected; it spans from hydrogen production, through hydrogen conversion (compression, storage, distribution and transport), up to its final uses and applications in different target sectors. That said, the main goal of this Special Issue is to collect contributions regarding hydrogen technologies and system applications with both a vertical and transversal approach, welcoming contributions of both specific technological and/or process aspects at all levels of the value chain as well as overarching studies which encompass the hydrogen value chain as a whole in order to fully untap the benefits across the energy and industrial sectors in terms of energy efficiency, economic competitiveness and environmental impact.

Guest Editors

Dr. Andrea Monforti Ferrario

ENEA Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Department of Energy Technologies and Renewable Energy Sources, Laboratory of Energy Storage, Batteries and Technologies for Hydrogen Production, Conversion and Use (TERIN-PSU-ABI), 00123 Rome, Italy

Dr. Viviana Cigolotti

ENEA Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Department of Energy Technologies and Renewable Energy Sources, Laboratory of Energy Storage, Batteries and Technologies for Hydrogen Production, Conversion and Use (TERIN-PSU-ABI), 00123 Rome, Italy

Deadline for manuscript submissions

closed (10 April 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/190205

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)