



Energy Transition and Hydrogen: Challenges and Opportunities

Guest Editors:

Prof. Dr. Antonella Meneghetti

Department of Polytechnic
Engineering and Architecture,
University of Udine, 33100 Udine,
Italy

Dr. Patrizia Simeoni

DPIA-Polytechnic Department of
Engineering and Architecture,
University of Udine, 33100 Udine,
Italy

Deadline for manuscript
submissions:

closed (15 January 2024)

Message from the Guest Editors

Dear Colleagues,

Hydrogen can represent a key factor for the underlining transition toward clean technologies for more sustainable production and consumption. The ability of hydrogen to link different energy sectors and energy transportation and distribution networks can increase the operational flexibility of future low-carbon energy systems. Moreover, hydrogen as material can be used in industrial processes to enhance their sustainability, as in the steel industry, where hydrogen metallurgy, which adopts hydrogen as the reduction agent instead of carbon to reduce the iron oxides, has been receiving growing attention.

This multidisciplinary Special Issue welcomes original articles on hydrogen from a variety of research fields, covering the whole supply chain, from production to utilization, embracing technological, economic, and social dimensions.

Prof. Dr. Antonella Meneghetti

Dr. Patrizia Simeoni

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [RePEc](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)