

Special Issue

Advances in Green Hydrogen and Green Ammonia

Message from the Guest Editors

Research spanning theoretical, computational, and experimental approaches that improve the efficiency, reliability, scalability, and safety of hydrogen and ammonia production and utilization systems. Areas of interest for publication include, but are not limited to, the following topics:

- Integrated scheduling and operation of electricity–hydrogen–ammonia systems;
- CFD modeling and simulation of key equipment such as electrolyzers and ammonia synthesis reactors;
- Process simulation, techno-economic analysis, and lifecycle assessment of green hydrogen/ammonia systems;
- Dynamic modeling, real-time optimization, and advanced control strategies;
- Safety monitoring, risk assessment, fault diagnosis, and early warning systems;
- Design, development, and prototyping of novel materials and components for electrolysis and catalytic synthesis;
- Hybrid renewable energy systems for hydrogen/ammonia production;
- Power-to-ammonia and power-to-gas integration with existing infrastructures;
- Applications of hydrogen and ammonia in energy storage, transportation, and industrial decarbonization;
- Standards, regulations, and policy support mechanisms for green hydrogen and ammonia economies.

Guest Editors

Dr. Ge He

School of Chemical Engineering, Sichuan University, Chengdu 610065, China

Dr. Yiwei Qiu

College of Electrical Engineering, Sichuan University, Chengdu 610025, China

Deadline for manuscript submissions

25 August 2026



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



mdpi.com/si/254286

Energies

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



[mdpi.com/journal/
energies](https://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)