

## Special Issue

# Green Hydrogen Production and Storage

### Message from the Guest Editors

Hydrogen is increasingly considered an important player in international strategies for the decarbonization of different sectors, from industry to power generation and transport. Research projects and industrial applications are addressing different components of the hydrogen pathways, which include production, storage, transmission, distribution, and final uses. The main pathway for the production of green hydrogen is based on power to gas (P2G) technologies, where renewable electricity is used for water electrolysis. Apart from electrolysis, researchers and various industry players are working to develop and produce green hydrogen using multiple sources, methods, and technologies, including thermochemical and biological processes. The production cost is a major barrier to the widespread use of green hydrogen. This Special Issue aims to encourage scientists, engineers, and researchers to address current state-of-the-art technologies, models, and solutions focused on the different green hydrogen pathways including production and storage systems.

### Guest Editors

Prof. Dr. Alessandra Perna

Department of Civil and Mechanical Engineering, University of Cassino and Southern Lazio, Viale dell'Università, 03043 Cassino, FR, Italy

Prof. Dr. Mariagiovanna Minutillo

Department of Industrial Engineering, University of Salerno, 84084 Fisciano, SA, Italy

### Deadline for manuscript submissions

closed (20 June 2023)



## Applied Sciences

an Open Access Journal  
by MDPI

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/110598](https://mdpi.com/si/110598)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

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

[appls](https://appls.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, 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, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )