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Advancements and Innovations in Hydrogen Energy

Guest Editor:

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Deadline for manuscript
submissions:

closed (20 April 2026)

Message from the Guest Editor

We are pleased to announce a Special Issue on "Advancements and Innovations in Hydrogen Energy" in the open access journal *Applied Sciences*. And we invite researchers and scholars to contribute original research articles, reviews, and case studies that address these and related topics.

Topics of interest include, but are not limited to:

- Advanced methods for hydrogen production, including electrolysis, thermolysis, and photolysis;
- Innovative hydrogen storage solutions, such as solid-state storage, liquid hydrogen, and advanced materials;
- Hydrogen fuel cells and their applications in transportation, stationary power, and portable devices;
- Integration of hydrogen energy systems with renewable energy sources;
- Advances in hydrogen infrastructure, including distribution networks and refueling stations;
- Emerging technologies and materials for hydrogen energy;
- Applications of AI and machine learning for optimizing hydrogen production processes and systems;
- Predictive analytics for demand forecasting and supply chain management in hydrogen networks;
- Use of AI in modeling and simulation of hydrogen energy systems.



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Special Issue



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Editor-in-Chief

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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.

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