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Advances in Hydrogen Production as an Energy Vector: Catalysing a Sustainable Future

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Message from the Guest Editors

We are thrilled to announce the upcoming Special Issue of MDPI's journal *Energies*, dedicated to cutting-edge research on hydrogen production as a pivotal energy vector. This edition aims to highlight the latest advancements, challenges, and opportunities in the field while fostering a multidisciplinary dialogue on the path towards a sustainable future.

This Special Issue invites researchers and experts from around the globe to contribute their original research, critical reviews, and insightful perspectives on hydrogen production. We encourage submissions covering a wide range of topics, including but not limited to, the following:

- Novel catalysts and materials for hydrogen production;
- Electrolysis and photoelectrochemical methods;
- Biomass and renewable resources for hydrogen generation;
- Techno-economic analysis and life cycle assessment of hydrogen production processes;
- Integration of hydrogen production systems with renewable energy sources;
- Hydrogen storage and transportation technologies;
- Hydrogen applications in industry, transportation, and power generation;
- Policy, regulatory, and economic frameworks for hydrogen deployment.

Special Issue



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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.

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