

## Special Issue

# Research Progress and Prospect of Green Hydrogen Energy and Environmental Issues

### Message from the Guest Editors

The main methods for green hydrogen production are the following three: PV electrocatalysis, photocatalysis, and photo-electrocatalysis. Several countries and research groups have devoted themselves to producing green hydrogen via the mentioned strategy. However, limitations restrict its application, which still needs further study. Recently, several innovative methods of water splitting have been invented and implemented. These have been critical for providing a unique opportunity for researchers to present and discuss recent advances in water splitting for green hydrogen production. Furthermore, green environmental techniques for energy conversion and utilization as well as relative energy and environmental culture and policy have also been suitable since they can be used to determine which hydrogen production method is more economical in either a special temporal or spatial period. Papers addressing these topics are invited for submission to this Special Issue, especially those of a high academic standard focused on optimal water splitting technology.

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### Guest Editors

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Dr. Zizhang Guo

Dr. Junying Liu

Dr. Hao Guo

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### Deadline for manuscript submissions

closed (28 February 2025)



## Energies

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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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### Editor-in-Chief

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