Special Issue

Insights into Hydrogen Production Using Solar Energy

Message from the Guest Editor

Hydrogen is emerging as a leading sustainable energy carrier, with the potential to decarbonise a variety of sectors. Integrating solar energy in hydrogen production processes plays a key role in advancing carbon-neutral technologies and reducing our reliance on fossil fuels. This Special Issue aims to gather high-quality research papers, reviews, and case studies that explore current trends, challenges, and opportunities in solar-driven hydrogen generation. Topics of interest include, but are not limited to, the following:

- Photoelectrochemical water splitting for hydrogen production;
- Thermochemical and photothermal hydrogen production methods;
- Catalysts and materials for enhanced solar-tohydrogen conversion;
- System designs and reactor configurations for solar hydrogen production;
- Techno-economic assessments of solar-driven hydrogen generation;
- Policy, market, and sustainability considerations in solar hydrogen initiatives.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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