

Special Issue

Photocatalytic and Photoreforming-Driven Hydrogen Production

Message from the Guest Editors

This Special Issue aims to highlight and disseminate the latest developments in photoreforming and photocatalytic hydrogen evolution, with emphasis on emerging materials, mechanistic insights, performance-optimization strategies, and future perspectives for practical solar-driven hydrogen production. **Topics of interest for this Special Issue include, but are not limited to, the following:**

- Photocatalytic hydrogen evolution under visible and solar light;
- Photoreforming of biomass, plastic waste, and organic substrates;
- Donor-acceptor frameworks, COFs, MOFs, and polymer photocatalysts;
- Bandgap tuning and heterojunction construction;
- Cocatalyst and surface modification strategies;
- Charge-transfer dynamics and exciton behavior;
- In situ/operando spectroscopy and mechanistic studies;
- Computational modeling and DFT insights;
- Integrated photoreactors and scalable hydrogen generation;
- Coupled reactions for hydrogen and fine chemical co-production.

We warmly welcome the submission of original research articles, reviews, and perspectives that contribute to the scientific progress and practical development of photoreforming and photocatalytic hydrogen evolution.

Guest Editors

Prof. Dr. Ho-Hsiu Chou

Department of Chemical Engineering, National Tsing Hua University,
No. 101, Sec. 2, Kuang-Fu Road, Hsinchu 30013, Taiwan

Dr. Jayachandran Jayakumar

Department of Chemical Engineering, National Tsing Hua University,
No. 101, Sec. 2, Kuang-Fu Road, Hsinchu 30013, Taiwan

Deadline for manuscript submissions

15 May 2026



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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