



Electrochemically-Based Hydrogen Energy Preparation in Energy Conversion

Guest Editors:

Dr. Zhiyuan Jiang

School of Chemical Engineering
and Technology, Xi'an Jiaotong
University, Xi'an 710049, China

Prof. Dr. Zhiguo Qu

School of Chemical Engineering
and Technology, Xi'an Jiaotong
University, Xi'an 710049, China

Deadline for manuscript
submissions:

15 August 2024

Message from the Guest Editors

In recent years, there has been growing interest in utilizing hydrogen as a clean and sustainable energy carrier, particularly in the context of transitioning to a low-carbon economy. Electrochemical methods have emerged as promising strategies for hydrogen production, storage, and utilization due to their efficiency, scalability, and environmental friendliness. This Special Issue seeks to shed light on the latest research and developments in electrochemical processes for hydrogen energy preparation.

Topics of interest include, but are not limited to, the following:

1. hydrogen evolution and oxidation reaction
2. electrochemical water electrolysis
3. hydrogen production
4. electrochemical cells and reactors
5. electrochemical hydrogen storage
6. proton exchange membrane fuel cells





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**,
SCIE (Web of Science), **Ei Compendex**, **Inspec**, **AGRIS**, and **other databases**.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)