

Special Issue

Electrochemically-Based Hydrogen Energy Preparation in Energy Conversion

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:

- hydrogen evolution and oxidation reaction
- electrochemical water electrolysis
- hydrogen production
- electrochemical cells and reactors
- electrochemical hydrogen storage
- proton exchange membrane fuel cells

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