



Hydrogen Economy: Challenges and Opportunities

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Message from the Guest Editors

Dear Colleagues,

The Special Issue aims to collect original research and review articles from authors working on the technological development of hydrogen energy systems. Various topics will be considered, including, but not limited to:

- Sustainable and low-carbon hydrogen production from water, biomass, natural gas, coal or other sources
- Hydrogen storage technologies, including the material-level, component-level and system-level
- Hydrogen transport solutions, such as mobilised, long-distance transport, marine, underground pipeline
- Integrated hydrogen energy systems for heating, cooling and electricity generation
- Hydrogen gas network for heating and cooling
- Hydrogen refuelling stations
- Fuel cells technologies for combined heat and power
- Hydrogen internal combustion engine or hydrogen turbine
- Hydrogen as a feedstock for industry and chemicals
- Hydrogen carriers, such as NH₃, CH₄ and alcohols

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