



Hydrogen Economy: Challenges and Opportunities

Guest Editors:

Dr. Yiji Lu

James Watt School of
Engineering, University of
Glasgow, Glasgow G12 8QQ, UK

Dr. Abigail González-Díaz

Instituto Nacional de Electricidad
y Energías Limpias

Deadline for manuscript
submissions:

closed (31 December 2021)

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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Dr. Abigail González-Díaz

Guest Editors





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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