



Hydrogen and Fuel Cells: Innovations and Challenges

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Message from the Guest Editors

As a green and renewable energy source, hydrogen is considered one of the most important directions for future energy development. The continuous improvement of fuel cell technology and hydrogen storage technology strengthens the integration of hydrogen energy with smart grids and vehicles to reduce holistic carbon emissions. Compared with conventional renewable energies, there are also many challenges associated with global hydrogen utilization.

In this Special Issue, both original research articles and reviews are welcomed. Research areas may include (but are not limited to) the following:

- Hydrogen generation and transmission in smart grid
- Hydrogen storage and transportation for multi-energy system
- Hydrogen vehicles for resilience enhancement
- Fuel cell controlling with hydrogen fuel
- Optimal operation of the hydrogen-based microgrid
- Smart operation of hydrogen sources via artificial intelligence
- Economics of hydrogen systems in smart grid
- Carbon-emission reduction in hydrogen infrastructure
- Heat recycling of hydrogen systems
- Hydrogen energy market





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Message from the Editor-in-Chief

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