

Special Issue

Advances in Hydrogen and Carbon Value Chains in Green Electrification

Message from the Guest Editors

The advancement of hydrogen and carbon value chains is essential for achieving global green energy goals. "Green hydrogen," produced via electrolysis powered by renewable energy sources, offers a carbon-free alternative to traditional methods. However, challenges remain in efficient transportation, storage, and infrastructure development. Integrating hydrogen and carbon value chains with renewable energy sources creates synergies that accelerate the transition to a low-carbon economy. These advancements drive technological innovation, policy evolution, and sustainable market solutions. Key research topics include (but they are not limited to) the following:

- Energy engineering & power technology
- Environmental engineering innovations
- Hydrogen production, storage & transportation
- Advances in the hydrogen value chain
- Carbon-free electricity generation

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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