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# Advanced Technologies for Hydrogen Production, Purification and Storage

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## **Message from the Guest Editor**

Hydrogen technologies are considered crucial to achieve sustainability for human society. A part of a fundamental role as an energy vector, hydrogen is a basic feedstock for the chemical industry. In order to advance towards decarbonization, a huge technical, economic, and scientific effort has to be done to develop and bring into our productive system hydrogen-related technologies.

In this Special Issue, the complete value chain for a massive hydrogen integration on our society will be covered. Contributions are expected to be, but not exclusively, in the following areas:

- Hydrogen generation: advances in electrolysis, thermal-chemical processes, decarbonization for reforming and gasification, and pyrolysis.
- Hydrogen purification: advances in separation technologies: membranes, absorption, and adsorption concepts.
- Hydrogen storage: caverns, liquid, compressed, and their combinations, hydrates, etc.
- Hydrogen vectors: ammonia, synthetic natural gas, etc.
- Hydrogen economy: scenarios, hydrogen valleys, business models, etc.











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# Message from the Editor-in-Chief

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