

## Special Issue

# Recent Advances in Hydrogen Production and Storage

### Message from the Guest Editors

Today, probably everyone has heard about hydrogen, which is anticipated to become one of the most important energy carriers in the near future. Hydrogen can be used in a fuel (hydrogen) cell—a device that converts chemical energy from fuel (hydrogen) into electricity by chemically reacting with oxygen or another oxidizing agent.

The topics of interest for the publication include all aspects related to:

- Hydrogen production methods:
- Conventional production methods (natural gas reforming, coal gasification);
- Renewable hydrogen production methods (solar energy, wind energy, geothermal energy, hydro energy, biomass gasification, etc.);
- Other nonconventional production methods (nuclear-based hydrogen production, ammonia cracking, aluminum-based hydrogen production, biological hydrogen production, etc.);
- Thermochemical cycles.

#### 2. Hydrogen storage:

- Compressed gas as well as Cold/cryo-compressed gas
- Liquid H<sub>2</sub>, slush hydrogen
- Metal hydrides (MH) as well as Complex hydride
- Adsorbent
- Liquid organics as well as Chemical hydrogen
- Construction of tanks and systems for hydrogen storage

### Guest Editors

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### Deadline for manuscript submissions



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### Message from the Editor-in-Chief

*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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