

Special Issue

Ammonia and Hydrogen as Energy Carriers: Challenges and Applications

Message from the Guest Editor

The compounds ammonia and hydrogen are recognized energy carriers and they play important roles in the chemical industry, but can also be used as fuels. In particular, the industry is interested in the application of primary fuel co-combustion with ammonia due to the potential consequent limitation of CO₂ emissions. Another possible application is the combustion of H₂/NH₃/H-C (hydrocarbon) mixtures in stationary and mobile chambers. The spectrum of potential applications is wide, i.e., gas turbines, boilers, industrial furnaces, engines, and others. We would like to invite you to submit the papers on a wide variety of fields related to the above-mentioned topics. Papers on both fundamental and practical aspects will be considered. The following topics are welcome:

- H₂ and NH₃ combustion with the option of blended H₂/NH₃/H-C combustion;
- Safety and risk management issues;
- Transportation and storage issues;
- Green H₂ and NH₃ production;
- NH₃ cracking;
- Alternative H₂ and NH₃ conversion (including photocatalysis).

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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