



Advances in Catalytic Materials and Mechanisms for Sustainable Ammonia Synthesis

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Message from the Guest Editors

Dear Colleagues,

The activation of nitrogen and ammonia synthesis has been of constant importance in basic organometallic chemistry, chemical manufacturing, biochemistry, and has recently been used as an effective hydrogen carrier to support the transition into a carbon-free hydrogen economy. This Special Issue invites submissions concerning the latest research in various aspects of ammonia synthesis, including photocatalytic/electrocatalytic methods, chemical looping, mechanochemistry, computational studies, and Haber–Bosch catalysts.

Keywords:

- NRR
- Haber–Bosch
- chemical looping
- N₂ activation
- ammonia synthesis

