

## Special Issue

# Emerging Materials for Catalytic Ammonia Synthesis

### Message from the Guest Editors

Ammonia is one of the most important industrial intermediates due to the mass demand for the production of various chemicals and fertilizers. With the development of the modern chemical industry, the demand for small-scale, on-site ammonia production under mild reaction conditions has become increasingly important due to regulations and the rising costs of transportation and storage. In this context, continuous efforts are urgently required to explore and develop novel functional materials as new catalysts for the effective synthesis of ammonia in various catalytic processes such as electrocatalysis, photocatalysis and traditional thermal catalysis.

This Special Issue focuses on the most recent advances in the ammonia synthesis of catalytic materials, including experimental and theoretical studies. We welcome researchers to submit their original research in the form of a communication, article, or review. The topics encouraged for submissions to this Special Issue include, but are not limited to, the following: nitrides, hydrides, amides, oxides, intermetallics, carbon, and electrides.

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### Guest Editors

Prof. Dr. Tiannan Ye

Frontiers Science Center for Transformative Molecules, School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

Prof. Dr. Yutong Gong

State Key Laboratory of Solidification Processing, Northwestern Polytechnical University, Xi'an 710072, China

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### Deadline for manuscript submissions

closed (31 October 2022)



## Crystals

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*Crystals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[crystals@mdpi.com](mailto:crystals@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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