

## Special Issue

# Metal-Based Aerogels and Porous Composites as Efficient Catalysts: Synthesis and Catalytic Performance

### Message from the Guest Editors

During the journey of pursuing superior metal-based aerogels and porous materials, exploring synthesis methodologies, unveiling catalytic mechanisms, and building up structure/composition-performance correlations are of paramount importance. In light of this, this Special Issue aims to collect both original research and reviews that reflect recent advances (both experimentally and theoretically) or provide new perspectives, particularly in developing syntheses and catalytic-related applications of metal-based aerogels and porous composites. Submissions are welcome (but not limited) in areas such as:

- Design and synthesis of metal aerogels;
- Design and synthesis of metal-based porous composites, such as metals supported on carbon aerogels;
- Theoretical prediction and simulation of the formation process of metal-based porous materials;
- Design novel metal-based porous materials for catalysis;
- Experimental or theoretical investigation of catalytic mechanisms with metal-based porous materials;
- Design metal-based porous materials for new applications.

### Guest Editors

Prof. Dr. Ran Du

Prof. Dr. Chengzhou Zhu

Prof. Dr. Bin Cai

Prof. Dr. Wei Liu

Prof. Dr. Dan Wen

Prof. Dr. Alexander Eychmüller

### Deadline for manuscript submissions

closed (10 December 2022)



## Catalysts

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### Message from the Editor-in-Chief

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#### Editor-in-Chief

Prof. Dr. Keith Hohn

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KS, USA

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