



Application of Porous Materials in CO₂ Capture

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Message from the Guest Editors

In this Special Issue, we are looking for contributions helping to:

- Understand the CO₂ capture mechanisms through in situ and simulation analysis;
- Determine the impact of structural properties on the CO₂ capture materials' overall performance;
- Offer design principles of materials with high adsorption capacity and ideal adsorption selectivity for CO₂ capture;
- Develop CO₂ capture systems at the industry scale.

The topics of interest include but are not limited to:

- The design of CO₂ capture systems based on porous materials;
- Industry CO₂ technologies;
- Direct air capture technologies;
- Structure–activity relationship of CO₂ capture materials;
- CO₂ sorption modeling and simulation.





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Message from the Editor-in-Chief

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