

Special Issue

Advances in CO₂ Capture and Absorption (2nd Edition)

Message from the Guest Editor

This Special Issue is the second edition in a series of publications dedicated to “Advances in CO₂ Capture and Absorption”

(https://www.mdpi.com/journal/atmosphere/special_issues/2MWMQ74126). Carbon capture, utilization and storage (CCUS) is considered an effective technology to curb CO₂ emissions in industry. The most used CO₂ absorption method in the industry is the alkanolamine-based scrubbing process. However, the alkanolamine-based scrubbing process suffers from several inherent drawbacks. The aim of this Special Issue is to showcase the recent research results related to efficient carbon capture technology. In this Special Issue, experimental and theoretical investigations that explore economically and ecologically methods related to carbon capture are welcome. Submissions to this Special Issue might include, but are not limited to, the following topics: the capture of carbon dioxide using liquid solvents; the capture of carbon dioxide using solid materials; the separation of carbon dioxide via membrane; carbon storage; and carbon utilization.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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