

Recent Advances in Carbon Capture, Utilisation and Storage Technologies

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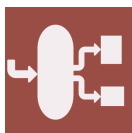
Message from the Guest Editors

To combat the detrimental impacts of climate change and meet the obligations outlined in the 2015 Paris Agreement, CO₂ Capture, Utilisation, and Storage (CCUS) has emerged as a crucial technology with significant potential for achieving climate targets. CCUS technology achieves the resource utilization of captured CO₂ and stores it in strata such as oil/gas reservoirs and salinity aquifers. However, there are still many challenges involved in several key parts of CCUS, including low-cost carbon capture, long-distance pipeline transport, CO₂-EOR, CO₂-ECBM/shale gas, and long-term safe storage. There is an urgent need for research and development in order that we implement CCUS-related technologies.

In this Special Issue, contributions to recent advances in CCUS technologies are welcome. Topics include, but are not limited to

- New theories and methods for CCUS;
- Laboratory experiments and numerical modelling of CCUS;
- Economic evaluation and field practices of CCUS;
- The environmental impact of CCUS projects;
- CO₂ monitoring





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Message from the Editor-in-Chief

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