



Carbon Capture Utilization and Sequestration (CCUS)

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Message from the Guest Editors

Dear Colleagues,

In the last few years, the greenhouse gas concentration in the atmosphere has increased. Carbon dioxide is considered one of the major contributors to greenhouse effects and climate change. In order to reduce CO₂ emissions, and the industry dependence on fossil fuels, it is necessary to develop technologies that combine capture and valorization processes to an adequate purity. Membrane technology has attracted extensive research and development as alternative clean CO₂ capture processes. Regarding the valorization of CO₂, electrochemical reduction of CO₂ has been studied recently at the laboratory scale as a potential means of converting CO₂ from flue gases to high added value chemicals and fuels. This Special Issue thus serves the need to promote exploratory research and development on CO₂ capture and utilization techniques, while addressing their challenges from a sustainable perspective.

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