

Special Issue

Recent Progress in CO₂ Capture, Utilization, and Storage (CCUS) Technologies for CO₂ Emissions Control

Message from the Guest Editors

The greenhouse effect and global warming have increased the frequency of extreme weather such as hurricanes, droughts, floods, and extreme heat, bringing immeasurable challenges to the environment on which all humanity depends for survival. Therefore, reducing the emission of greenhouse gases and alleviating the greenhouse effect is attracting extensive attention from all countries in the world. CO₂ capture, utilization and storage (CCUS) technology is a promising approach for CO₂ emission reduction, especially for the large-scale reduction of CO₂ emissions from fossil fuel use (or even zero emissions). However, the application of CCUS technology still suffered from high cost. Therefore, it is urgent to develop an economical and efficient CCUS technology that can be applied to various CO₂ capture, storage, and utilization scenarios. This Special Issue will be focused on a variety of CCUS technology research and development progress of the path, including but not limited to fundamental research, scale-up, technical-economical analysis, pilot tests, industrialization demonstration research, and other fields.

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