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Novel Technologies for Carbon Dioxide Sequestration

Guest Editor:

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Message from the Guest Editor

Greenhouse gases pose a significant threat to human societies all over the planet. The burning of fossil fuels has led to an increase in the atmospheric CO_2 concentration of more than 45% relative to the pre-industrial era. In the USA alone, power plant CO_2 releases comprise 55% of total CO_2 emissions. Until a successful transition to renewal energy sources is accomplished, there is an urgent need for CO_2 capture technologies from concentrated sources. There are also many methods that attempt to capture carbon dioxide from air or even the sea. Process intensification is a technique that reduces operating and capital costs by combining chemical reactions and separation operations, thus significantly increasing the efficiency of the process.

This Special Issue aims to present novel carbon dioxide sequestration technologies that are technically feasible, cost-effective, and environmental friendly; the scope includes, new technologies and significant improvements on existent processes. Articles discussing concentrated sources and direct carbon capture technologies are welcomed, particularly process intensification processes with the potential to reduce capital and operating costs.

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Message from the Editor-in-Chief

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