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# Novel Technologies for Carbon Dioxide Sequestration

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Deadline for manuscript submissions:
**closed (28 February 2022)**

## 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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