# **Special Issue**

# Advances in CO<sub>2</sub> Adsorptive Separation for CO<sub>2</sub> Capture

## Message from the Guest Editor

This is a call for papers for a Special Issue on "Advances in CO2 Adsorptive Separation for CO2 Capture". Among all the greenhouse gases, CO2 is blamed as the main contributor due to the amount of it present in the atmosphere. In this framework, one approach that holds great promise for reducing CO2 emissions into the atmosphere from large fixed industrial sources is carbon capture and storage (CCS). However, for CCS schemes to be actually feasible, further research is needed to reduce the considerable costs of the capture phase, especially if performed by means of current state-of-the-art separation technologies. In this scenario, adsorption using solid sorbents has been receiving increasing research interest since it offers superior advantages over the well-developed aminescrubbing technology: low regeneration energy consumption, selectivity, ease of handling, no liquid waste, and ease of applicability over a relatively wide range of operating temperatures. [...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/separations/special\_issues/adsorptive\_separation\_CO2\_Capture

## **Guest Editor**

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## Deadline for manuscript submissions

closed (20 December 2023)



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## Message from the Editor-in-Chief

Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, Separations, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

### Editor-in-Chief

Prof. Dr. Frank L. Dorman

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