

Special Issue

Materials and Processes for Carbon Capture by Means of Adsorption

Message from the Guest Editors

This Special Issue titled “Gas Capture Processes” aims to identify novel advances in the development and application of experimental and modeling work to address longstanding challenges in gas capture processes. Topics include, but are not limited to, the following:

- Gas separation from gas mixtures, influence of gaseous impurities on the overall performance of gas separation;
- Gas separation processes optimization, scaling-up and comparative analyses based on energy requirements and total gas separated per unit of used material and separator(s)/reactor(s) volume;
- Kinetic mechanisms of sorption/desorption, thermodynamics of CO₂ and other phases;
- Multiphase flow during the storing process; and
- The development of gas capture applications at different scales.

Guest Editors

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