



Carbon Capture and Utilization

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Deadline for manuscript
submissions:

closed (31 March 2020)

Message from the Guest Editors

Dear Colleagues,

Carbon dioxide (CO₂) emissions to the atmosphere have drastically increased in the past decades, with the energy and transport sectors representing the major fractions of the greenhouse gas (GHG) emissions. This increase, which can be translated to a 50% increase in atmospheric CO₂ concentration since pre-industrial levels, has been associated with several negative environmental impacts, such as the increase of greenhouse effect, global warming, and ocean acidification. Therefore, it becomes urgent for world economies to reduce their CO₂ emissions, reduce carbon intensity associated with the energetic and transport sectors, and adopt effective CO₂ capture techniques.

This Special Issue on Carbon Capture and Utilization aims to present an overview of currently applied techniques for CO₂ capture and applications, focusing on their advantages and disadvantages and on the main challenges towards their large-scale application.

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Message from the Editor-in-Chief

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