

Special Issue

New Trends in Carbon Capture and Storage

Message from the Guest Editors

The carbon dioxide concentration in the atmosphere increases due to industrial and human activities that need a lot of energy. This increased CO₂ leads to global warming and dramatic issues for human beings, economics, and the whole ecosystem. Most of the CO₂ is emitted from fossil fuel burning. Carbon capture and storage are essential to enable the use of fossil fuels while reducing the emissions of CO₂ into the atmosphere and thereby mitigating global climate change. Research is needed to suggest practical and low-cost solutions that lead to reducing CO₂ emissions. The research on pre- and post-combustion processes and developing novel materials for CO₂ capture is welcome, such as oxy-fuel combustion, post-combustion adsorption, absorption, and storage. In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in the field. Contributions in the form of full papers, reviews, and communications about the related topics are very welcome.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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