

Special Issue

State of the Art of Carbon Capture and Sequestration

Message from the Guest Editor

High concentration of greenhouse gases (GHG), particularly carbon dioxide (CO₂), in the atmosphere leads to adverse environmental impacts, such as high temperature, precipitation, and risks of forest fires. Environmental agencies/sectors are always looking for effective ways for mitigation of carbon concentration in the atmosphere. Further, the energy and environmental industries are still interested in injecting CO₂ into underground formations for both sequestration and enhanced oil recovery (EOR) purposes. Thus, it seems vital to employ efficient carbon management technologies such as carbon capture and storage (CCS) to reduce carbon dioxide emissions. There are a variety of theoretical and practical challenges with CCS technologies, such as high capital and operating costs, long-term CO₂ fate, and leakage risks. The aim of this Special Issue is to publish research papers that address the above issues through proposing new experimental and modeling approaches.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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