

Special Issue

Challenges and Development on Carbon Capture and Storage

Message from the Guest Editors

CO₂ capture and storage (CCS) is a major player for the decarbonization of industrial sectors such as the power, steel and iron, cement, and petrochemical industries. There are still many issues, associated mainly with the transportation and storage of CO₂. Many researchers have been addressing this problem in the past few years, but there are still many open questions. Topics of interest for publication include, but are not limited to:

- Effect of impurities on thermodynamic behavior of CO₂ stream;
- Water solubility and corrosion;
- Pre-commissioning and commissioning procedures for CO₂ pipelines;
- Low-temperature scenarios;
- Ductile fracture propagation analysis;
- Leak detection systems for CO₂ pipelines;
- Behavior of non-metallic materials inside piping components in CO₂ pipeline transport systems;
- Investigation of risk analysis state-of-the-art for CO₂ pipeline transport systems;
- Transport property models.

Guest Editors

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Deadline for manuscript submissions

closed (21 May 2023)



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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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