

## Special Issue

# Challenges and Development on Carbon Capture and Storage

### Message from the Guest Editors

CO<sub>2</sub> 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 CO<sub>2</sub>. 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 CO<sub>2</sub> stream;
- Water solubility and corrosion;
- Pre-commissioning and commissioning procedures for CO<sub>2</sub> pipelines;
- Low-temperature scenarios;
- Ductile fracture propagation analysis;
- Leak detection systems for CO<sub>2</sub> pipelines;
- Behavior of non-metallic materials inside piping components in CO<sub>2</sub> pipeline transport systems;
- Investigation of risk analysis state-of-the-art for CO<sub>2</sub> pipeline transport systems;
- Transport property models.

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### Guest Editors

Dr. Barbara Marchetti  
Prof. Dr. Francesco Corvaro  
Dr. Matteo Vitali

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### Deadline for manuscript submissions

closed (21 May 2023)



## Energies

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### Editor-in-Chief

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