Special Issue

CO₂ Capture Technologies – Utilization and Storage

Message from the Guest Editors

The open access journal Atmosphere is hosting a Special Issue to showcase the most recent findings related to CO2 capture, utilization and storage. With the recent expansion of research showing that the CO2 technologies are a feasible solution to reduce the CO2 emissions and achieve climate neutrality. This Special Issue is also an appropriate venue for papers that deal with CO2 utilization and CO2 storage. Ultimately, this Special Issue aims to showcase the most recent comparable evidence on the impact of CO2 capture and how the captured/pure CO2 can be used to produce high added-value products. Contributions of original results are welcome, from field and controlled investigations, subjective surveys, models and review papers related to carbon capture, storage and utilization (CCUS) technology, including the following research topics:

- Design and optimization of CCUS processes;
- Production of products from captured CO2;
- New CO2 capture technology;
- CCUS technologies to climate neutrality;
- Process simulation of CCUS;
- CCUS policies

Guest Editors

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Deadline for manuscript submissions

closed (15 April 2023)



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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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