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# **Carbon Capture and Storage**

Guest Editor:

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## Message from the Guest Editor

Dear Colleagues,

Climate change is one of the main threats to modern society. This phenomenon is associated with an increase in greenhouse gas emissions, due to anthropogenic activities. The main causes are the burning of fossil fuels and land use change. Climate change impacts are associated with risks to basic needs (health, food security and clean water), as well as risks to development (jobs, economic growth and the cost of living). The processes involving CO<sub>2</sub> capture and storage are gaining attention in the scientific community as an alternative for decreasing CO2 emissions, reducing its concentration in ambient air. The carbon capture and storage (CCS) methodologies comprise three steps: CO 2 capture, CO<sub>2</sub> transportation and CO<sub>2</sub> storage. Despite the high research activity within this topic, technological, economic and environmental issues as well as safety problems remain to be solved, such as the following needs: increase of CO<sub>2</sub> capture efficiency, reduction of process costs, and verification environmental sustainability of CO<sub>2</sub> storage.

Prof. Dr. Jos&ea











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## **Message from the Editor-in-Chief**

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