Special Issue

Carbon Capture and Storage

Message from the Guest Editor

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 CO2 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: CO2 capture, CO2 transportation and CO2 storage. Despite the high research activity within this topic, several technological, economic and environmental issues as well as safety problems remain to be solved, such as the following needs: increase of CO2 capture efficiency, reduction of process costs, and verification of environmental sustainability of CO2 storage. Prof. Dr. Jos&ea

Guest Editor

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Message from the Editor-in-Chief

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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