





an Open Access Journal by MDPI

Carbon Capture and Storage

Guest Editor:

Dr. José Carlos Magalhães Pires

LEPABE - Laboratory for Process Engineering, Environment, Biotechnology and Energy, Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias, 4200-465 Porto, Portugal

Deadline for manuscript submissions:

closed (31 October 2018)

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 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: CO 2 capture, CO₂ transportation and CO₂ 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 CO₂ capture efficiency, reduction of process costs, and verification environmental sustainability of CO₂ storage.

Prof. Dr. Jos&ea











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (*Engineering (miscellaneous)*)

Contact Us