

Special Issue

Challenges and Research Trends of Carbon Capture Utilization and Storage (CCUS)

Message from the Guest Editor

In addition to the development of strategies and technologies focused on the reduction in greenhouse gas emissions, the storage of those compounds represents a key factor to reach the main goals fixed in occasion of COP26 in terms of environment preservation and mitigation of the global climate change. This Special Issue of *Energies* aims to collect relevant scientific contributions in the field of greenhouse gas capture and storage, with particular attention to carbon dioxide. Innovative solutions for gas storage, optimization of energy saving, reduction in costs associated to the processes, as well as utilization of proper and innovative “host” materials for gas storage are only some of the scientific topics that we will take into account. We will also consider works focused on the reuse of these gases, in order to produce a second energetic cycle with the same final quantity of waste gas produced. In this sense, we will consider topics as methanation, power-to-gas and others. Papers addressing any of these specific topics are welcome.

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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