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Advances in Carbon Capture and Storage

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Deadline for manuscript submissions:
closed (15 September 2021)

Message from the Guest Editors

Dear Colleagues,

Global warming being a serious problem has threatened our plant. Carbon dioxide is a main gas causing this problem. Through the past decades up to date, scientific efforts have focused to improve and develop a quality of fuels or look for alternative clean burning fuels. Whereas, the post-combustion method has been used to control the emitting of CO_2 gas from power plants. CO_2 can be captured by using a suitable solvent via absorption process or using a suitable adsorbent via adsorption process. In addition, a huge amount of CO_2 has been injected through wells into underground using depleted gases or hydrocarbons reservoirs or using unmineable coal seams in deep reservoirs. Consequently, climate change problem can be attenuated, and the future of next generations can be secured.

This Special issue aims to collect original research or review articles on CO_2 capture and storage using different classes of porous materials or solvents including theoretical and experimental studies.

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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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