Special Issue

Advanced Transport in Porous Media for CO_2 Storage and EOR

Message from the Guest Editor

Carbon reduction has become the main issue facing the development of human society at present. Massive emissions of CO2, as a kind of greenhouse gas, will increase the greenhouse effect in the atmosphere, leading to the further deterioration of the environment that humans rely on for survival. Therefore, the effective storage of CO2 is an important measure to address global climate change. Carbon dioxide capture, utilization, and storage (CCUS) technology is an industrial process that separates CO2 from industry, energy utilization, or the atmosphere and directly utilizes or injects it into geological formations to reduce CO2 emissions. The CCUS technology in the oil and gas industry can effectively enhance the final oil recovery of oil and gas reservoirs and can increase oil and gas production to provide sustainable energy security for social development.

This Special Issue aims to present and disseminate the most recent advances related to the theory, mechanism, modelling, method, technology, application, and influence factor of CO2 storage and EOR in porous media of oil and gas reservoir.

Guest Editor

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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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