Special Issue

CO_2 Enhanced Oil Recovery and Carbon Sequestration

Message from the Guest Editors

Further research and development are drastically needed to address the many technical challenges associated with CO2 EOR and carbon sequestration. In this Special Issue, we invite experts to submit articles which report on the recent technological developments in the following areas of CO2 EOR and carbon sequestration: laboratory studies and experimental measurements, theoretical studies and numerical simulations, phase behavior and PVT studies, miscibility mechanisms, modified CO2 injection techniques, wellbore technologies, multiphase flow in reservoir, evaluation of storage capacity, leakage detection and measurement technologies during CO2 storage, geochemical reactions during CO2 injection and storage, geomechanical aspects of CO2 injection and storage, coupled thermal/hydrological/mechanical simulation of CO2 injection, CO2-based hydraulic fracturing techniques, effect of impurities on the process efficiency, robust optimization of CO2 EOR and sequestration, economic analysis, life-cycle analysis, etc. Both original research articles and review articles will be welcome.

Guest Editors

Dr. Huazhou Li

Dr. Daoyong Yang

Prof. Dr. Shengnan Chen

Dr. Yin Zhang

Dr. Xiaoli Li

Dr. Zhaoqi Fan

Deadline for manuscript submissions

closed (20 July 2023)

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About the Journal

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.

Editor-in-Chief

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