

Special Issue

CO₂ EOR and Sequestration: Conventional and Unconventional Reservoirs

Message from the Guest Editors

CO₂-EOR not only increases oil recovery but also contributes to CO₂ sequestration in geological formations. While the field demonstrations projects of CO₂ sequestration in oil and gas reservoirs and saline aquifers are on rise; the fundamental understanding of CO₂ interactions with reservoir oil and brine, experimentation of multiphase flow in porous media and numerical simulations provide pore- and core- scale insight. The use of chemical additives with CO₂ has also been studied and applied for CO₂-EOR field projects. In recent years, the utilization of CO₂ in unconventional reservoirs has also shown promising results. Huff-and-Puff and Cyclic injection activities are increasing in unconventional resources. CO₂ EOR can play an important role in Carbon Capture Utilization and Storage (CCUS) to minimize the carbon footprint of the current oil recovery process while improving the efficiency of oil extraction. This special issue invites scientific output in the following topics:

- CO₂ Flooding: Miscible, immiscible and WAG
- Huff-n-puff and Cyclic Gas Injection
- CO₂-foams: Lab Design, Pilot and Field tests
- Field demonstration
- CO₂ sequestration

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Deadline for manuscript submissions

closed (20 November 2020)



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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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