

Special Issue

Utilization and Storage of Carbon Dioxide in Petroleum Engineering

Message from the Guest Editor

CO₂ Capture, Utilization and Storage (CCUS) is an emerging CO₂ disposal technology with large-scale application potential, which is expected to achieve near-zero CO₂ emissions from fossil energy use. The CO₂ generated during industrial production can be captured and injected into specific geological structures, such as saline aquifer, oil and gas reservoirs, and unminable coalbed, for permanent storage. This Special Issue on “Utilization and Storage of Carbon Dioxide in Petroleum Engineering” seeks high-quality work focusing on the latest novel advances of CCUS in petroleum engineering. Topics include, but are not limited to:

- Enhanced production mechanisms of CO₂ injection in hydrocarbon and geothermal reservoirs;
- CO₂ trapping mechanisms in different geological structures;
- Progress of CO₂ geological storage and utilization demonstration project;
- CO₂ leakage risk, monitoring scheme and preventive measures.

Guest Editor

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Editor-in-Chief

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