Special Issue

Co-optimisation of CO2 Storage and Hydrocarbon Recovery

Message from the Guest Editor

Geological storage of CO2 is a technically proven method and currently the best solution to mitigate greenhouse gas emissions and therefore develop a sustainable environment. Several factors need to be considered to co-optimise CO2 storage and hydrocarbon recovery to achieve technical and economic success and environmental sustainability. These factors include reservoir characterisation and understanding the reservoir geology, access to an affordable supply of CO2, the size of the target reservoir, metering and monitoring pressures and flow rates at injection and production wells, operational risk assessment and safety performance, economics, and considering alternatives injection scenarios to increase the amount of CO2 trapped during enhanced hydrocarbon recovery.

This Special Issue focuses on but is not limited to CO2 storage in oil and gas reservoirs, storage capacity assessments, reservoir characterisation, fluid flow behaviour, geochemical reactions and reservoir response during and after CO2 injection, enhanced hydrocarbon recovery methods, co-optimising CO2 EOR/EGR/ECBM, and storage and technoeconomic analysis.

Guest Editor

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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