

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-optimize 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

Dr. Fatemeh Kamali

School of Petroleum Engineering, University of New South Wales,
Sydney, NSW 2052, Australia

Deadline for manuscript submissions

closed (15 May 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/58996

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)