# Special Issue

# Recent Advances in Subsurface Sequestration of Anthropogenic Carbon Dioxide

## Message from the Guest Editors

This Special Issue highlights recent advances in subsurface sequestration of anthropogenic carbon dioxide from pre-injection to post-injection site care. The topics of interest for publication include but are not limited to:

- Reservoir petrophysical (core characterization and correlation) analysis;
- Reservoir petrochemical (CO2–fluid–rock interactions) characterization;
- Geological modeling using well logs and 2D/3D seismic data;
- Greenfield CO2 storage characterization, optimization, and development;
- CO2 storage capacity;
- Near well bore and large-scale natural fracture mapping;
- Drilling and completion design;
- Geomechanical evaluation during and after CO2 injection;
- Real field simulation of CO2 sequestration process;
- Sensitivity analysis and uncertainty quantification;
- Economics and life cycle analysis of CO2 sequestration;
- Surface and subsurface CO2 monitoring and leakage detection;
- Application of artificial intelligence on CO2 sequestration processes.

## Guest Editors

Dr. Ebrahim Fathi

Dr. Jinqing Bao

Dr. Qin He

Dr. Salah A. Faroughi

Dr. Fatemeh Belyadi

## Deadline for manuscript submissions

closed (30 October 2024)

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*Energies*
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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