

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)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/149678

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

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





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



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



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

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)