

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

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4052 Basel, Switzerland
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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 Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

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