



Mechanical Integrity of CO₂ Storage Sites

Guest Editor:

Dr. Bahman Bohloli

Engineering Geology and Rock
Mechanics, Norwegian
Geotechnical Institute (NGI),
Oslo, Norway

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Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Geosciences* aims to gather high-quality original papers, case studies, advances, reviews, and technical notes on the "Mechanical Integrity of CO₂ Storage Sites".

According to the Intergovernmental Panel on Climate Change (IPCC), carbon capture and storage (CCS) is a key tool for reducing global greenhouse gas emissions. There is great potential for the large-scale storage of CO₂ worldwide, where geological formations at great depths provide suitable pressure and temperature conditions for storing CO₂ in the supercritical state. Once the CO₂ has been injected into the target reservoir, it should be stored permanently there. This requires the assessment of storage integrity. The comprehensive analysis of storage sites, careful planning of injection operation, and employment of viable monitoring technologies are the major elements that can provide confidence in the safe, permanent storage of CO₂ in deep geological formations.





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Editor-in-Chief

Prof. Dr. Jesus Martinez-Frias

Instituto de Geociencias, IGEO
(CSIC-UCM), C/ Del Doctor Severo
Ochoa 7, Edificio
Entrepabellones 7 y 8, 28040
Madrid, Spain

Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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Geosciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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