

Special Issue

CO₂ Storage, Impurity Gases, and Enhanced Recovery: Geochemical and Geomechanical Effects

Message from the Guest Editor

Geological CO₂ storage is gaining increased interest as a viable method to sequester greenhouse gases. Gas streams produced from processes such as coal combustion, natural gas separation, cement and steel processing can contain impurity gases such as SO_x, NO_x, O₂, H₂S and CH₄. These gases can have impacts such as increased acidity of fluids and reactivity of rocks. These have implications for mineral trapping, water quality, injectivity, seal integrity, etc. Geochemical gas water rock reactions and geomechanical changes are relevant to CO₂ storage and also conventional and unconventional enhanced recovery of oil or gas. This Special Issue seeks contributions through experimental, modelling or field studies of geological CO₂ storage or enhanced recovery with a focus on geochemical and geomechanical impacts.

Guest Editor

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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.

Editor-in-Chief

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