



## CO<sub>2</sub> Storage, Impurity Gases, and Enhanced Recovery: Geochemical and Geomechanical Effects

Guest Editor:

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Deadline for manuscript  
submissions:

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### Message from the Guest Editor

Dear Colleagues,

Geological CO<sub>2</sub> 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<sub>x</sub>, NO<sub>x</sub>, O<sub>2</sub>, H<sub>2</sub>S and CH<sub>4</sub>. 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 CO<sub>2</sub> 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 CO<sub>2</sub> storage or enhanced recovery with a focus on geochemical and geomechanical impacts.





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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.

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