Special Issue

Geological and Mineralogical Sequestration of CO_2

Message from the Guest Editors

The rapid increase of concentrations of greenhouse gases, anthropologically-generated (primarily CO2) in the atmosphere, is responsible for global warming and ocean acidification. Carbon capture and storage (CCS) techniques have been proposed and developed to contrast the rise of CO2 in atmosphere. [...]
This Special Issue aims to collect articles covering various aspects of recent scientific advances of CO2 storage, including characterization of storage formations and cap-rocks and their behavior during CO2 injection, storage modelling studies for test design, test site results and environmental monitoring, numerical modelling of geochemical-mineralogical reactions and CO2 flow, studies of natural analogs of CO2 storage and CO2 mineral sequestration, and experimental investigations to better understand long-term geological storage and carbonation processes.

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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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Journal Rank:

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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