Special Issue

Mineralogical, Petrophysical and Hydromechanical Properties of Reservoirs and Caprocks

Message from the Guest Editors

Clavs and clav-based materials serve as reservoirs and caprocks for energy resources, storage and waste stream sequestration. The mineralogical, petrophysical and geomechanical characteristics are the information required for understanding unconventional origins. accumulation, evolution and modeling in different geological settings. The purpose of this Special Issue is to provide a cutting-edge insight to the multiscale properties of shales or mudrocks, during coupled thermal, hydrologic, mechanical, chemical or biological processes in natural or anthrogenic activities. We seek original research that explores the storage potential and evolution of material properties of shale or mudrocks during hydrogen injection, energy-waste containment and sequestration, gas hydrate formation, and geothermal infiltration. Submitted studies are expected to highlight the potential of shale and other clay-based materials to store and transport these fluids under in situ or in-house laboratory conditions. Work that explores the role of mineral distribution within shales in determining material response to CO2, H2, and other fluids of interest are encouraged.

Guest Editors

Dr. Yi Fang

Dr. Brandon Schwartz

Dr. Yona Li

Dr. Zhuang Sun

Deadline for manuscript submissions

closed (30 November 2022)



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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.

Fditor-in-Chief

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Author Benefits

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Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2024).

