

## Special Issue

# Organic Geochemistry, Geochronology, and Paleogeography of Shale Deposits

### Message from the Guest Editors

Shale deposits remain one of the most fascinating topics of study in sedimentary geology. These deposits have the potential to provide a huge amount of key information regarding the paleoenvironmental evolution at different scales (from molecular to seismic). The development of new analytical techniques allows the precise reconstruction of past aquatic environments through geochemical proxies while seismic attributes of shales support correlations at long distances enabling paleogeographic reconstructions. Furthermore, over the last decade, in addition to their fundamental role as the source rock in conventional petroleum systems, shale deposits became an important source of energy in the sense of unconventional deposits. Therefore, this Special Issue aims to embrace all the aspects associated with the shale deposits preserved along the geological record exploring relevant topics to the scientific community and the oil and gas industry. Topics include, but are not limited to:

- shale geochemistry
- paleogeography of shale deposits
- anoxic events
- source-rock geochemistry
- machine-learning applied to the characterization of shale deposits
- carbon capture and storage in shales

### Guest Editors

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### Deadline for manuscript submissions

closed (3 November 2024)



## Minerals

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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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