

Special Issue

Deposition, Diagenesis, and Geochemistry of Carbonate Sequences

Message from the Guest Editors

Carbonate sedimentary sequences host large volumes of hydrocarbon and mineral deposits in almost all geographical settings. Comprehensive study of these sequences commonly includes five main subjects: (1) understanding their depositional environment thorough facies analysis and modeling; (2) unraveling their diagenetic history by the integration of petrographic and geochemical investigations; (3) sequence stratigraphic interpretations using sedimentological, paleontological, geochemical, geophysical, and petrophysical data; (4) fault and fracture analysis; and (5) geological correlations and modeling of carbonate sedimentary systems. In these subjects, various sources of data are used, including petrography, SEM, CL microscopy, XRD, well-logs, X-ray CT scanning, and geochemical analyses. In addition to their economic importance, carbonate successions are a valuable archive of past environmental changes. This Special Issue aims to contribute to the disclosure of high-quality research on carbonate sedimentary sequences. Case studies and reviews are both welcome.

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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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