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Paleoenvironment Evolution Proxy in Carbonates: Sedimentary Geochemistry

Guest Editor:

Dr. Jinmin Song
State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation, Chengdu University of Technology, Chengdu 610059, China

Deadline for manuscript submissions:
closed (25 May 2024)

Message from the Guest Editor

The scope of the Special Issue covers a wide range of topics related to carbonate sedimentary geochemistry, such as:

(1) Trace elements and isotopes as indicators of paleoweathering, paleosalinity, paleotemperature, paleoproductivity, paleoredox, and paleoceanography in carbonates.

(2) Whole-rock mineral and clay mineral analyses as proxies for carbonate provenance, sedimentary facies, and diagenetic alterations.

(3) Organic geochemistry and biomarkers as tools for tracing the origin, evolution, and diversity of organic matter in carbonates.

(4) Statistical analyses and modeling of large-scale sedimentary geochemical datasets to reveal global and regional patterns and trends of environmental evolution in carbonates.

(5) Case studies of carbonate sedimentary geochemistry from different geological periods, regions, and settings (e.g., marine, lacustrine, fluvial, glacial, etc.).

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Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut,
University Bayreuth, D-95440
Bayreuth, Germany

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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Minerals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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