



Mineralogy, Petrology, Geochemistry and Diagenesis of Carbonate Minerals and Rocks

Guest Editor:

Prof. Dr. Hairuo Qing

Department of Geology,
University of Regina, Regina, SK
S4S0A2, Canada

Deadline for manuscript
submissions:

closed (31 December 2018)

Message from the Guest Editor

Dear Colleagues,

Carbonate rocks are composed seemingly simple assemblages of minerals: calcite and dolomite. Yet the formation of calcite and dolomite are related to complicated process and factors. Marine calcite can be precipitated as aragonite, high-Mg-calcite, and low-Mg calcite, which are interpreted to be related to atmosphere CO₂ level and/or Mg/Ca ratio in the seawater in the geological history. The processes of precipitation of dolomite and formation of dolostones are often controversial. Although numerous models of dolomitization have been proposed and debated, the so called “dolomite problem” still remains. Carbonate rocks, whether they are composed of calcite or dolomite, can be important hydrocarbon reservoirs as well as host rocks for mineral deposits, such as Mississippian Valley Type of Pb-Zn deposits. This special volume is open to all the original research on mineralogy, petrography, geochemistry, and diagenesis of carbonate minerals and rocks. Integrated researches with multiple approaches that lead to new insights and a better understanding of calcite mineralogy and processes of dolomitization are especially welcome. Studies that focus on characterization of carbonate reservoirs and carbonate host rocks for mineral deposit are also welcome.

Prof. Dr. Hairuo Qing
Guest Editor





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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Mining & Mineral Processing*) / CiteScore - Q2 (*Geology*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/minerals
minerals@mdpi.com
[X@Minerals_MDPI/](https://twitter.com/Minerals_MDPI/)