

## Special Issue

# Crystallochemistry and Geochemistry of Dolomite

### Message from the Guest Editors

It is our pleasure to announce a Special Issue of *Minerals* entitled “Crystallochemistry and Geochemistry of Dolomite”. Dolomite,  $\text{CaMg}(\text{CO}_3)_2$ , is an ubiquitous carbonate mineral in the Earth crust which plays a key role in the carbon and magnesium global cycles. Since its discovery at the end of the 18th century, dolomite as a rock-forming mineral has consistently attracted the interest of researchers. However, and despite the geological and geochemical importance of dolomite, its formation mechanisms in nature are still little known. The lack of an universal explanation for the formation of dolomite in natural aqueous environments and the difficulties in synthesizing this mineral under certain experimental conditions are usually termed as the “dolomite problem”. The aim of this Special Issue is to provide new insights into this longstanding mineralogical problem through novel contributions on crystallochemical and geochemical aspects of dolomite formation, e.g., structure, cation ordering, isotopic composition, surface reactivity, and synthesis experiments.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 September 2021)



## 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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### Editor-in-Chief

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