Special Issue

Polar Marine Carbonates

Message from the Guest Editors

At the 15th IAS Meeting of Sedimentology (13–15 April 1994, Ischia, Italy), the talk “Life against Thermodynamics” was presented by one of the (M.T.) at a special session devoted to polar carbonates. The concept recalls the basic fact that precipitation of calcium carbonate minerals in polar marine settings is profoundly disadvantaged by the ambient low temperatures (close to the freezing point). The presence of calcium carbonates under extreme polar conditions is largely trusted to the capability of organisms to invest energy in the process of biomineralization. Many important aspects of processes and products of carbonate precipitation and diagenesis in polar and subpolar latitudes have been elucidated to date; however, others remain little-known. This Special Issue welcomes contributions on all compositional (chemical, physical, biological) aspects of polar and subpolar carbonates in the marine domain, recent and past.

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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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