Special Issue

Petrological, Geochemical and Geodynamic Study of Ophiolites and Modern Oceanic Lithosphere

Message from the Guest Editors

The architectural and geochemical signatures of ophiolites are derived from variation in petrological, geochemical and tectonic processes acting in different geodynamic settings. Significant advances in marine geosciences have recently improved the comparison between ophiolites and the modern oceanic lithosphere. One of the striking features that ophiolites and the modern oceanic lithosphere have in common is the formation of secondary minerals and mineralization, caused by the interaction between rock and seawater or hydrothermal fluids that penetrate the crust via permeable structures created by fissuring and faulting, and via the intrinsic porosity of the rock. We encourage authors to submit papers to this Special Issue that focus on the mineralogical and geochemical composition of ophiolites and the modern oceanic lithosphere. They should also provide new insights into rock–seawater and/or rock–hydrothermal fluid interactions, mineral deposits in ophiolites and the modern oceanic lithosphere, and/or biomineralization, in relation to the different oceanic geodynamic settings.

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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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