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Mid-Ocean Ridge Exploration: Magmatism, Mineralization and Tectonics at Oceanic Divergent Plate Boundaries

Guest Editor:

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Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editor

Dear Colleagues,

Mid-ocean ridges represent divergent plate boundaries in oceanic realms and the largest mountain range on Earth that is made entirely of magmatic crustal and ultramafic mantle rocks. Asthenospheric upwelling beneath the nearly 60,000 km-long mid-ocean ridges is responsible for the production of new basaltic ocean floor and oceanic lithosphere, and for one of the two most important plate-driving forces (ridge push). The planet Earth loses a great deal of heat (~30% heat lost from oceanic crust) along mid-ocean ridges through hydrothermal processes as well as rapid differentiation and cooling in the lower oceanic crust.

In this Special Issue of *Minerals* (MDPI) we invite contributions on all aspects of the production and evolution of modern and fossil oceanic lithosphere, presenting new data, concepts, and models and/or timely reviews of seafloor spreading processes at mid-ocean ridges and other oceanic spreading environments in convergent margin settings (i.e., backarc and forearc basins. Short concept-driven papers based on submersible diving and deep ocean drilling results are particularly welcome.

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Editor-in-Chief

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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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