

Special Issue

Mineralogy, Petrology and Geochemistry of Ophiolitic Complexes

Message from the Guest Editor

Oceanic mantle peridotites and crustal igneous rocks in ophiolites sample lithosphere shaped in different tectonic settings, such as mid-ocean ridges, passive margins, plumes and island arcs. These rocks may record a complex tectono-magmatic evolution, including multiple stages of melt extraction, mantle-melt reaction, crustal production, interaction with fluids and deformation. Deciphering the fingerprints of this evolution is fundamental to comprehend how the oceanic lithosphere is generated, modified, recycled and/or accreted at plate boundaries. This Special Issue aims to gather studies that constrain the igneous, metamorphic and tectonic evolution of oceanic lithosphere exposed in ophiolites, in particular focusing on implications for its construction and alteration at mid-ocean ridges, back-arc basins, and subduction zones. This Special Issue intends to present a comprehensive view of the mineralogical and geochemical features of ophiolites at very different scales (from sub-microscopic minerals to km-scale massifs) and using different geochemical systems (e.g., lithophile, siderophile, chalcophile elements and related isotopes).

Guest Editor

Dr. Claudio Marchesi

Departamento de Mineralogía y Petrología, Universidad de Granada,
18002 Granada, Spain

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,
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