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Mineralogy, Chemistry, Weathering and Application of Serpentinite

Guest Editors:

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Deadline for manuscript submissions:
31 December 2024

Message from the Guest Editors

Serpentinites are rocks that have traditionally been widely studied from several points of view such as mineralogy, geochemistry, tectonics and natural resources. This is due to serpentinization is one of the most important fluid-rock alteration processes on Earth. In addition, is a key process in the CO2 capture, and their potential connection to the origin of life in hydrothermal vents and "black smokers" in mid-oceanic ridges. From a natural resources standpoint, these rocks can form important ore deposits of metals (Cr, Ni, Co) or industrial minerals (asbestos) or used as dimension stones. In addition, the study of the physical and mechanical properties becomes crucial in the civil engineering field.

Therefore, considering the broad spectrum of these rocks, this special issue is proposed to encompass all types of papers on various topics involving serpentinites. This includes mineralogical and geochemical characterization using novel techniques, the role of serpentinites in regional geological processes, their association with mineral resources, their applications as dimension stone, as aggregates, and their connection with health problems arising from their asbestos content.

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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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