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Submarine Volcanism, Related Hydrothermal Systems and Mineralizations

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Deadline for manuscript submissions:
31 May 2024

Message from the Guest Editors

Dear Colleagues,

Regarding the volcanogenic massive sulfide deposits, the following topics are the focus of recent studies: formation conditions and indicators of supergiant ore deposits, localization of the ore deposits, identification of the magmatic body which serves as a heat source and possible fluid source, modelling the fluid circulation system, tracing the possible magmatic fluid source, as well as tracing the hidden ore deposits.

However, magmatic rocks not only play a role as heat and possible fluid providers but also act as hosts of these hydrothermal processes. As submarine volcanic rocks (incl. pillow basalts) can occur at several geotectonic situations (e.g., advanced rifting stage, oceanic stage, subduction-related arc volcanism), distinguishing them in an efficient way is of crucial importance to be able to localise potential ore deposit-bearing formations.

To sum up, this Special Issue focuses not only on the VMS ore deposits but also on the investigation of submarine lava flows and magmatic rocks, with special regard to their petrogenetic significance.

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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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Journal Rank: JCR - Q2 (*Mining & Mineral Processing*) / CiteScore - Q2 (*Geology*)

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