

Special Issue

Mineralization and Geochemistry of VMS Deposits

Message from the Guest Editors

Volcanogenic or volcanic-hosted massive sulfides (VMSs) form in submarine volcanic and volcano-sedimentary successions located at, or close to, divergent margins, convergent arcs, and back-arc spreading settings. In general, they can be connected with nearly all possible geotectonic environments related to volcanic activity in deep marine settings, regardless of the type of volcanism. VMS bear several characteristics beneficial to mankind, present since the earliest stages of human history, including ease of identification, mining, and ore processing. Their significance is primarily their base metal potential. Due to the large diversity in the geologic and geotectonic setting, the geochemical and mineralogical characteristics vary both between the various VMS types, as well as within the same type. These variations determine the recoverable commodities. The objective of this Special Issue is to compile available and newly acquired geochemical and mineralogical information on VMS and demonstrate how these data may be employed and utilized in the development of new deposits.

Guest Editors

Dr. Stavros Triantafyllidis

School of Mining and Metallurgical Engineering, National Technical University of Athens, Iroon Polytechniou 9, Zografou, 15780 Athens, Greece

Dr. Stylianos Tombros

Department of Materials Science, School of Natural Sciences, University of Patras, 26504 Rio Patras, Greece

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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,
Germany

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