Special Issue

Pyrite Varieties and LA-ICP-MS Geochemistry in Ore Genesis and Exploration

Message from the Guest Editors

This Special Issue invites contributions that deal with research into pyrite varieties, including modern exploration vectoring techniques and geometallugy. Studies on the range of ore systems is welcome, including: VHMS, porphyry copper, IOCG, stratiform zinc–lead–silver, MVT zinc, stratiform copper, Carlin-type gold, Witwatersrand-type gold, orogenic gold and other ore deposits. We are inviting contributions on high-resolution and new techniques to explore and characterize the mineralogy and geochemistry of strategic and critical metals like Se, Co, Ni, Te, Au, Ag and PGE concentrated in the pyrite of ore deposits. The LA-ICP-MS study could be useful for the detection of gold and other mineral micro-inclusions and substitution forms in pyrite. These and other techniques may be also used to characterize the physical and chemical parameters of pyrite deposition and deformation. We hope that new studies may reveal the use of pyrite chemistry as a geothermometer and geofugometer. [...] For further reading, please follow the link to the Special Issue at:
https://www.mdpi.com/journal/minerals/special_issues/Pyrite

Guest Editors

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Deadline for manuscript submissions

closed (15 March 2020)

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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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