Special Issue

Porphyry and Skarn Systems: Critical Metal Enrichment, Fluid Evolution and Exploration Implications

Message from the Guest Editors

Porphyry and skarn deposits are among the Earth's most important sources of copper, molybdenum, and gold, and are increasingly recognized as vital suppliers of critical metals for renewable energy technologies, such as cobalt, tungsten, lithium, indium, and rhenium. These mineral systems exemplify the dynamic interplay among magmatic–hydrothermal fluids, crustal lithologies, and structural controls. Recent advances in microanalytical geochemistry, experimental modeling, and geophysical exploration call for an integrated reappraisal of metal transport and deposition mechanisms, as well as their implications for future resource targeting. We look forward to receiving your original research and reviews that will help advance our understanding of these complex and economically crucial systems.

Guest Editors

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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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