Special Issue

Porphyry Metallogenic System: Genetic Mineralogy and Prospecting Mineralogy

Message from the Guest Editors

A porphyry metallogenic system is a hydrothermal metallogenic system related to porphyry magma and a deep magma chamber, which can develop porphyry deposits, epithermal deposits and skarn deposits. Thus far, porphyry-related ore deposits are the Earth's major resources of copper, molybdenum, and rhenium, and also provide significant amounts of gold, silver, and other metals. Human research on porphyry-related deposits not only provides supports for the exploration of deposits, but also help geologists to reveal the evolution process of Earth's continental crust. In the field of research on ore deposits, the study of porphyry-type deposits has become more and more mature, and the relevant theories are also very good. In recent years, with the improvement and application of in situ test technology (e.g., EPMA, LA-ICPMS, SHRIMP, SIMS, NanoSIMS), researchers of porphyry-related deposits are gradually shifting their focus from traditional research methods to detailed study on minerals.

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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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