

Special Issue

Genesis of Porphyry Cu–Mo Deposits: Geochemistry, Mineralogy and Geochronology

Message from the Guest Editor

Research of porphyry Cu, Mo, Au, and Pb–Zn deposits mainly focuses on tectonic setting, source of ore-forming materials, transportation, magmatic oxygen fugacity, and metal precipitation mechanisms. Porphyry deposits are mainly formed in three tectonic settings: (1) climax type, which is associated with intraplate rifts; (2) Endako type, which is associated with plate subduction; and (3) collision type, which is related to continental collision. Although they are all related to porphyry, the magmatism in different tectonic settings can induce different magmatic–fluid–metal mineralization processes. In the past decade, due to the application of in situ isotope analysis techniques, the characterization of the mineralization process has become more precise and accurate. This Special Issue seeks reviews and summaries on the characterization of the mineralization process.

Guest Editor

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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.

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