Special Issue

Geochronology, Mineralogy, and Genesis of Orogenic Gold Deposit: Implications for Gold Prospecting

Message from the Guest Editors

Despite decades of research, prospecting, and exploration, Orogenic Gold Deposits (OGDs) remain not only one of the main sources of gold ore worldwide but also an exploratory frontier. Its complexity is mainly due to its wide spatial distribution in distinct geological settings and geological time spans. The diversity of involved metasedimentary and metaigneous rocks, variable metamorphic conditions, and structural architectures provides additional complications for understanding genetic scenarios and their implications for gold prospecting. In this way, the Special Issue invites submissions relating to Orogenic Gold Deposits. This Special Issue focuses on the following: 1) the characterization of mineralizing controls and relevant physico-chemical conditions for ore genesis; 2) the role of metamorphism and deformation on the mineralizing process and ore enrichment; 3) the geochronology of ore formation and its relation with tectonics and tectonic setting; 4) the characterization of parental fluids and hydrothermal processes; and 5) the effect of supergene enrichment on Orogenic Gold Deposits and its implications for gold prospecting.

Guest Editors

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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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