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Selenium, Tellurium and Precious Metal Mineralogy

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Message from the Guest Editors

Dear Colleagues,

Selenium- and tellurium-bearing precious metal minerals are significant producers of Au, Ag, Pt, Pd, and potentially strategic elements if mineral processing methods are optimized for recovery. These minerals include many phases (e.g., Au-Ag-Te and Au-Ag-Se) and occur in many types of ore deposits from different backgrounds, such as epithermal, Carlin-type, orogenic, and intrusion-related gold deposits as well as magmatic Cu–Ni–PGE sulfide, IOCG, VMS, porphyry, and skarn deposits. In recent years, high-precision analysis (e.g., in situ technology and high-resolution mass spectrum) on minerals has provided an opportunity to investigate mineral genesis, metal sources, and enrichment mechanisms, as well as metal recovery in ore deposits. This Special Issue is focused on Se- and Te-bearing precious metal minerals from different deposit types, including, but not limited to (1) mineral genesis in ore deposits; (2) high-resolution chemistry and isotope analyses of minerals; (3) hydrothermal experiments (e.g., nucleation and growth); (4) numerical modeling; and (5) environmentally friendly recovery approaches.

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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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