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Using Mineral Chemistry to Characterize Ore-Forming Processes

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Deadline for manuscript submissions:
31 August 2025

Message from the Guest Editors

An ore deposit is an aggregate of minerals that can be economically recoverable and utilized. Ore minerals and gangue minerals are products of ore-forming processes and indicators of ore genesis. Over the past thirty years, the ages, sources, and detailed ore-forming processes of numerous ore deposits have been better understood, which are of great importance for mineral exploration.

This Special Issue is intended to present mineralogical, geochemical, isotopic, and geochronological studies aiming at constraining the ore-forming processes and mechanisms of various types of mineral deposits. We welcome original research, methods, and reviews regarding the genesis of mineral deposits. Potential topics include, but are not limited to, the following: (1) chemical analyses of minerals to reveal the evolution of ore fluids; (2) isotopic analyses of minerals to constrain the source of metallogenic materials and the age of ore deposits; (3) mineralogical characteristics of ore deposits; (4) fluid inclusions in minerals; (5) physical and chemical conditions of mineralization.

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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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