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Mineralogy, Geochemistry and Fluid Inclusion Study of Gold Deposits Endowed in Critical Metals

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Deadline for manuscript submissions:
closed (30 June 2025)

Message from the Guest Editors

Dear Colleague,

Gold deposits have been found in a variety of geological settings throughout the earth's geological history, since the early Archean. Processes leading to primary concentrations of gold can still be detected in active geothermal areas at present. Gold is typically found in a variety of forms and in association with other metals and metalloids like silver, tellurium, copper and lead, as well as in sulfides, sulfosalts and gangue minerals such as quartz and calcite. Some of these metals and metalloids are considered critical metals since they are vital to important modern technologies and, in many cases, can be extracted as co- or by-products.

This Special Issue invites contributions that apply mineralogy, geochemistry (major and trace elements, stable and radiogenic isotopes), fluid inclusions and fluid–rock interaction studies in gold deposits endowed in critical metals that have been formed in various geological systems. We encourage original and review papers covering novel techniques, developments and applications in applied mineralogy, geochemistry, and fluid inclusions.

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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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