

Special Issue

Genesis of the Gold Deposits: News from Geology, Fluid Inclusions and Isotopes

Message from the Guest Editors

Gold continues to be a critical commodity with the supply–demand balance and is providing economic stability worldwide. Auriferous deposits have been classified in a number of ways over 40 years. Current genetic types of gold deposits mainly comprise the epithermal, carlin-type, porphyry and skarn, IOCG, and orogenic, with subordinate placer-type, laterite-type, VMS, and magmatic. They are comprehensively constrained by the deposit geology, tectonic setting, ore fluid temperature and salinity, and multiple systems of isotopes. These studies provide a good way of understanding ore-forming process and guiding mineral exploration. This Special Issue aims at displaying recent achievements in the research of geology, fluid inclusions, isotopic geochemistry, and mineralogy of gold deposits. We welcome studies on the ore genesis of different ore systems, including ore fluids evolution, high-precision dating, ore-forming process, as well as ore-related magmatism, deformation, and related tectonics. We also solicit methodological studies employing in situ analytics that can reflect the ore-forming fluid sources, metallogenic age, and precipitation mechanism.

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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.

Editor-in-Chief

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