



Iron Oxide-Copper-gold (IOCG) Deposits

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Message from the Guest Editor

Dear Colleagues,

The discovery of the Olympic Dam, and its definition as a new type of copper deposit with important resources and other commodities (Fe, Au, U) and Iron Oxide-Copper-Gold (IOCG) deposits, has caused great interest in formation processes and characteristic guidelines that are useful for their exploration. New discoveries have emphasized a hydrothermal origin of these deposits but the metal source, and especially the relationship with IOA (Iron oxide-apatite, or Kiruna type) deposits, are still discussed. This Special Issue aims to bring together new discoveries, studies in the areas of mineralogy, alteration, genesis, classification and structural control, and to review the current state-of-the-art in terms of knowledge. We welcome studies from all these areas, including new geological models and exploration guides.

Keywords

- IOCG
- IOA
- Kiruna
- genesis
- classification
- characteristics
- alteration
- magnetite
- hematite
- sulfides
- breccias





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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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