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Depositional Environment, Genesis and Gold Systems of Banded Iron Formation

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Dear Colleagues,

Among the many types of gold deposits, Banded Iron Formation (BIF), which represent chemical sedimentary rocks characterized by alternating layers of iron-rich minerals and chert intercalated with volcano-sedimentary sequences, acts as a favorable host rock for orogenic gold mineralization within several Archean cratons. In addition to this economic aspect, BIFs have long been appreciated as an important contributor to furthering our understanding of the geochemical evolution of the Earth. However, these deposits are, in general, tectonically deformed, metamorphosed and dismembered, thus making the reconstruction of their depositional setting and overall geologic setting difficult.

Our Special Issue will cover a broad range of relevant topics of interest, such as:

1. Documentation of newly identified BIF and their depositional environment;
2. New geochemical tools to assess BIF depositional setting;
3. Stratigraphy influence on gold mineralization;
4. BIF and ore-forming processes;
5. Influence of primary BIF settings on gold mineralization;
6. Atypical BIF deposits: their mineralogy and genesis.

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Special Issue

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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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