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Iron Biogeochemical Cycle: Relationship with Global and Regional Earth Processes, and Ore Deposits Formation

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

The Special Issue "Iron Biogeochemical Cycle: Relationship with Global and Regional Geological Processes, and Ore Deposits Formation" focuses on the review of biogeochemical processes for the origin of iron-rich deposits. Factors controlling ironstones' distribution, metal sources, and mineral formation mechanisms are yet to be properly understood. This Issue addresses the relationship between sedimentary ore formation, global geological events, paleoclimatic conditions, and biogeochemical processes. Understanding the factors controlling the physical-chemical conditions of deposition, and consequently, modification of the iron biogeochemical cycle, are necessary for highlighting the origin of sedimentary ores.

The main goal of this Special Issue is to focus on diverse ideas about and investigations of ironstone deposits with a focus on the relationship between biogeochemical processes, geological and climatic factors, and mineral formation conditions.

Multidisciplinary studies of iron-rich sediments based on a variety of laboratory methods and techniques and covering different research aspects addressing global geological events are welcome.

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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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