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Geological, Structural, Geochemical, Hyperspectral, and Geostatistical Modeling for Mineral Exploration

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to present research that focuses on the exploration of ores in diverse geological settings, such as shear zone mineralization, sediment-hosted stratiform deposits, placer deposits, and hydrothermal settings, through the detailed investigation, characterization, and geospatial mapping and modeling of ore deposits. Submissions pertaining to mineralogy, petrography, alteration geochemistry, structural controls, geochemical and biogeochemical signatures, and genesis-related submissions are highly encouraged. Moreover, preference is given to studies that highlight field and laboratory research, spectral signatures and mineral detection, characterization and classification, and multi-spectral and hyperspectral remote sensing. Studies on the application of machine learning and artificial intelligence to the study of ore deposits are welcome, as is research into 3D/4D orebody modeling and mineral resource estimation for specific industrial metals and nonmetals, rare earth minerals (REEs), and nanomaterials.

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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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