



Geophysical Signatures of Mineral Deposits in Tropical and Subtropical Settings

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Deadline for manuscript submissions:

closed (30 September 2025)

Message from the Guest Editors

Dear Colleagues,

Obtaining mineral deposits in tropical regions of our planet is difficult due to the intense action of climatic processes, which disintegrate rocks and produce thick soils. The discovery of new mineral deposits in these areas in the last decade has shown the necessity of using geophysical methodologies in the mineral exploration stages. Advances in geophysical and petrophysical data acquisition systems have led them to become faster and more efficient, which has enabled the recording of physical properties and anomalies with high resolution and excellent quality. The correlation of geophysical results with multipoint data analysis allows for a complexity determination of mineral deposit facies. This Special Issue invites the submission of articles that present original scientific research related to geophysical results or mineral deposits that occur in tropical regions.

This Special Issue focuses on the following topics:

- 1) The presentation of geophysical responses of mineral deposits with thick weathered and oxidized zones;
- 2) Geophysical footprints of supergenetic mineral deposits;
- 3) The application of new geophysical techniques in mineral exploration.





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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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