

Special Issue

Application of Geophysical Data Interpretation in Geological and Mineral Potential Mapping

Message from the Guest Editors

Geological structures often control the locations and geometries of mineral deposits, oil, and natural gas. Geophysical data interpretation can help in mapping these geological structures. These structures provide many types of information that are essential in both the exploration for new mineral deposits and during subsequent mining; therefore, they have a significant effect on the optimization of exploratory drilling operations as well as the understanding of mineral deposits. This Special Issue aims to publish new interpretation results obtained from geophysical methods, such as gravity, magnetic, seismic, electromagnetic, electrical, and radiometric methods, in geological and mineral potential mapping. Reviews, new methods, and data mining in geophysics are also welcome.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2023)



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About the Journal

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.

Editor-in-Chief

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Journal Rank:

JCR - Q2 (Mineralogy) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).