Special Issue

Using Geophysical Inversion for Mineral Exploration: Methods and Applications

Message from the Guest Editors

In this special issue, we are inviting papers that deal with geophysical inversion developments (e.g., improved resolution, meaningful geological constraints, joint inversion) to all types of geophysical methods (e.g., gravity, magnetic, electrical and electromagnetic methods, seismic methods and even remote sensing methods such as hyperspectral imaging) and surveys (e.g., airborne, ground, offshore and borehole) and their applications in defining the mineral exploration targets in case studies. This also includes contributions for inversion techniques applied for deep-seated and unconventional mineral deposits e.g., marine sulfides.

Guest Editors

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Deadline for manuscript submissions

closed (25 December 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.

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Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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