Special Issue

Joint Geophysical Data Inversion and Assessment for Mineral Accumulation

Message from the Guest Editors

Geophysical methods play important roles in the identification and resource assessment of minerals and their physical properties. So, a combination of two or more approaches with geological, petrophysical, drilling, and simulation data verifies much more reliable results (integrated approaches). This integration ensures more prominent precision and higher reliability of the deduced model in 2D or 3D for subsurface structures. `Mineral exploration and research are important to find and incorporate new reserves, in response to a growing demand for increasing the national income for different countries. So, the available methods (geophysical, geological mapping, soil and rock sampling, chemical analysis, and remote sensing) achieve these targets. In this Special Issue, we aim to present and highlight the advanced approaches to characterize and describe various regions around the world to explore economic minerals.

Guest Editors

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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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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).

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