Special Issue

Interpretation of Potential Field Data for Mineral Exploration

Message from the Guest Editor

Potential field data are widely used in the search for economic mineral deposits. The data are often extensively processed by a variety of sophisticated techniques as part of the project, and the development of new techniques is a very active field of research worldwide. This Special Issue will focus on all aspects of technique development, such as hardware (e.g., drones, magnetometer/gravimeter technology), forward, inverse, and semi-automatic interpretation algorithms, new AI technology, etc. Featured manuscripts will describe new techniques in sufficient detail for the reader to duplicate the work, and applications to real data will be presented.

Guest Editor

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Deadline for manuscript submissions

closed (28 March 2025)

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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 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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