Special Issue

Seismic Methods in Mineral Exploration

Message from the Guest Editors

In many parts of the world, exploration for mineral deposits is moving progressively but persistently to greater depths, relying on knowledge gained from previous exploration campaigns and also on new exploration tools and techniques to efficiently guide deep and costly boreholes. With encouraging results recently obtained in various mining camps, seismic methods continue to make valuable contributions to deep mineral exploration worldwide. This Special Issue aims to publish case studies demonstrating the value of seismic methods for a wide range of mineral commodities located in a variety of mining camps across the globe. This includes topics such as regional reconnaissance of ore system elements; rock physics and quantitative analysis for improved characterization of mineral deposits; modelling, inversion, and integration of seismic data with ore deposit geology. Papers addressing technical aspects of the seismic workflow with a particular focus on state-of-the-art methods opening new frontiers in mineral exploration are especially welcome.

Guest Editors

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Deadline for manuscript submissions

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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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