Special Issue

Mineralogy, Geochemistry and Geochronology of W-Sn Polymetallic Deposits, 2nd Edition

Message from the Guest Editors

W-Sn deposits are vital sources of critical resources. In 2022, we published the first Special Issue on "Mineralogy, Geochemistry and Geochronology of W-Sn Polymetallic Deposits," which garnered significant attention. Recent progress calls for further discussion on their mineralization processes. Current research mainly focuses on two aspects:

- The genesis of highly differentiated granites, involving the study of major/trace elements, Sr-Nd isotopes, and Hf-O isotopes of accessory minerals like zircon and apatite. These studies help understand the tectonic background, magma sources, ore-forming factors (e.g., redox environment, temperature, sulfur fugacity), and the relationship between magmas and ores.
- In situ analysis of metal minerals (e.g., scheelite, cassiterite) and gangue minerals (e.g., quartz, mica) to investigate their textures, trace elements, and isotopes (e.g., W, Sn, Sr, Mo). This approach reveals multi-stage mineralization processes.

This Special Issue will continue to explore recent advances in W-Sn deposits, including magma sources, in situ analysis of minerals, fluid exsolution, and worldwide geochemistry/geochronology.

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.

Editor-in-Chief

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Journal Rank:

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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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