

Special Issue

Exploration, Geometallurgy and Geoenvironmental Assessment of Economic Deposits

Message from the Guest Editors

The growing demand for base, precious and critical metals requires new approaches for the discovery, extraction, processing and geoenvironmental management of new economic deposits. Such resources may be located under cover or at greater depths and require novel or advanced exploration methods for discovery. Secondary resources of these metals may also occur in existing or historical mine waste/tailings or low-grade stockpiles/dump materials and represents a significant exploration target. Definition of economic mineral resources requires the integration of multiple techniques including new and emerging characterisation technologies which present the opportunity to collect multi-scale data, relevant across the whole mining value-chain, at early exploration stages. This Special Issue encourages submissions relating to all aspects of exploration (geochemistry, geophysics), geometallurgy and mineral processing, geoenvironmental characterisation and waste repurposing with the aim of providing significant contributions to the sustainable development of future mineral and metal resources globally.

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

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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).