Special Issue

New Economy Minerals

Message from the Guest Editors

New economy minerals (NEMs) represent the sources of a suite of elements essentially required for the development of advanced and emerging technologies, including renewable energy generation and storage, electric vehicles, high-tech industries (including space), and consumer electronics (including smart phones). These elements, often referred to as “critical” due to their strategic importance and relative scarcity, include Li, Co, V, Ga, Ge, In, W, and rare earth elements (e.g., Ce, Nd, Dy). In this Special Issue, we invite contributions that investigate the geological occurrence of NEMs, including tectonic setting, mineralization processes, geophysical and geochemical expression, and exploration methods including illustrative case histories. We also encourage contributions that document the mineralogical and chemical characterisation of NEMs in both primary deposits and existing ore and waste streams, addressing the geometallurgical understanding of the occurrence and mineral processing opportunities for this significant group of elements.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2023)

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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:

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 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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