Special Issue

Beneficiation and Extraction of Critical Metals from Ores and Secondary Resources

Message from the Guest Editors

It is well known that the demand for lithium, tantalum and niobium has skyrocketed in recent years owing to their use in modern electronics, energy storage systems, superalloys and catalysts. These elements often feature on the list of critical metals/minerals in many countries worldwide. Several researchers are currently working on the efficient beneficiation and extraction of these commodities from primary deposits (such as hard rock ores and pegmatite deposits) and secondary resources (e.g., plant tailing and waste streams), as well as the recycling of spent materials. The development of optimal techniques for the production of Li, Ta and Nb will be crucial to bridge the gap between supply and demand in the coming years.

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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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