Special Issue

The Crystal Chemistry and Mineralogy of Critical Metals

Message from the Guest Editors

Metal can be regarded as critical only if it performs an essential function for which few or no satisfactory substitutes exist. Criticality is a measure that combines importance to the economy and risk of supply disruption. The critical metals category, according to various estimates, includes REE, In, Ga, Te, Co, Li, PGE, Ge, Se, Ag, Gd, He, and Te. The aim of the Special Issue is the accumulation and analysis of the newest research results on crystal chemistry and mineralogy of natural and synthetic phases containing critical metals. Our understanding of their structure, composition, and geochemical origin is key to the development of innovative and emerging technologies.

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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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