Special Issue

Critical and Precious Metals Recovery from Tailings

Message from the Guest Editors

Metal resources are more crucial than ever in current global energy transition efforts. Thus, the growing demand for critical metals has increased the price of precious metals, which has promoted interest into processing tailings to recover cobalt, rare earths, nickel, gold, silver, and platinum, among others...In this regard, the folowing topics are welcome to this Special Issue: (i) novel studies and developments in advanced geo-chemical and micro-chemical characterization of metal-host minerals; (ii) new proposals on the use of alternative reagents to extract critical and precious metals; (iii) novel developments to optimize the current methods of metal extraction, including reagent recovery processes; (iv) studies focused on developing compact and mobile unit operations; (v) examples of and developments in tailings remediation; and (v) studies to support the poly-metallic processing approach and process integration, as well as life cycle assessment focused on tailing processing. Industrial experiences dealing with critical and precious metal recovery from tailings are also welcome.

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.

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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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