Special Issue

Recent Advances in Hydro- and Biohydrometallurgy

Message from the Guest Editor

Hydro- and biohydrometallurgical processes have been used for years to solve bottlenecks in the raw materials supply, and to provide environmental solutions for various industrial problems. This Special Issue aims to present recent technological advances and innovative solutions towards unlocking the use of potential raw materials—both primary and secondary—as potential metal resources. Emphasis is placed (among others) on the treatment of economically important deposits, refractory ores, low-grade polymetallic wastes, sludges (e.g., goethite, jarosite), slags, and electronic waste which are currently not yet being fully exploited due to technical problems. In addition, the extraction of critical elements and REEs through leaching or bio-leaching (including heap (bio)leaching studies) as well as the biodesulfurization of coals is of particular importance. Developmets on the recovery of metals from dilute and concentrated solutions should be highlighted. Studies on kinetics, process medeling, reactor design, and life cycle analysis are also welcome. Prof. Dr. Kostas A. Komnitsas

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2019)

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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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