

Special Issue

Advances in the Theory and Technology of Biohydrometallurgy

Message from the Guest Editors

This Special Issue aims at presenting recent theoretical and technological advances in biohydrometallurgy using raw materials and secondary resources, such as important deposits, refractory ores, low-grade polymetallic wastes, sludges, slags, and electronic waste. In terms of theory, knowledge of the molecular and genetic makeup of bioleaching microbes and the interaction between microbes and minerals is crucial for a deeper understanding of the bioleaching mechanism. Critical aspects influencing the efficiency of biohydrometallurgy, including physical, chemical, and biological factors, should also be emphasized to increase leaching efficiency. Studies on leaching kinetics, process modeling, reactor design, life cycle analysis, and socio-economic aspects are encouraged in order to drive industrialization. Contributions on new technological developments for enhancing bioleaching efficiency, as well as on industrial instances of biohydrometallurgy, are also welcome.

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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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