Special Issue

Bioleaching from Sulfide Minerals

Message from the Guest Editor

Since sulfide minerals contain very important and useful metals in hydrothermal deposits, the investigation of the mineralogical properties of sulfide minerals is an important influencing factor in the process of recovering useful metals, such as mineral processes and smelting. Future research on useful metal recovery processes should efficiently reduce the generation of pollutants and develop low-energy technologies. Bioleaching for sulfide minerals is a technology that leaches useful metals using indigenous microorganisms (sulfide-oxidizing microorganisms, iron-oxidizing microorganisms, etc.). It is an ecofriendly and economical leaching technology compared to chemical leaching. The relationship between the mineralogical, chemical, and biological properties of recovered minerals and indigenous microorganisms is an important factor in increasing bioleaching efficiency.

In addition, the eco-friendly mineral process has advantages such as simple process, low energy consumption, and high mineral recovery rate compared to general mineral process (eg, column flotation, electrochemical pretreatment, etc.).

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2022)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/80418

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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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