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Metal Recovery and Environment Remediation by Bioleaching Technology

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Message from the Guest Editors

The process whereby minerals are dissolved into bulk solutions under the effects of microorganisms is called bioleaching. On the one hand, bioleaching can be used for valuable metal recovery from ore deposits and concentrates. On the other hand, bioleaching may cause acidification of water resources, leading to serious environment pollution, such as acid mine/rock drainage (AMD/ARD).

This Special Issue aims to publish papers of recent advances on bioleaching, bioremediation and related studies. These include mechanisms, methodology, new technology and its applications. Studies on the physiology and phylogeny of bioleaching microorganisms as well as recent omics data relevant to the understanding of bioleaching process are also welcome.

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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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