Special Issue

Characterization and Management of Mine Waters

Message from the Guest Editors

Water resulting from mining activities is often a source of environmental problems. Remediation and management are major environmental issues that the mining sector should face. The investigations transpose topics ranging from the special hydrochemistry, expressed by the pH, concentrations of potentially toxic elements and sulfate; the interaction with the biosphere, namely, acidophilic algae and other extremophile organisms; biodiversity reduction; and ecological risks, also affecting human health.

Furthermore, water management is an issue of concern, especially in the context of climate change. In this sense, the need for novel remediation techniques that allow water reuse is urgent. After years of applying engineering approaches with high associated costs, nowadays, methodologies based on natural solutions, which consist of replicating natural habitats, such as phytoremediation, are more appreciated.

However, even applying environmental improvement techniques, constant monitoring of areas affected by these waters is essential.

Therefore, this Special Issue aims to bring novel contributions to this theme, developed around the issues of mine water characterization and management.

Guest Editors

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Deadline for manuscript submissions

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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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