



Characterization and Management of Mine Waters

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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.





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Message from the Editor-in-Chief

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