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Circum-Neutral Mine Waters and Mine Wastes Geochemistry

Guest Editor:

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Message from the Guest Editors

Circum-neutral mine waters (CNMW) are commonly of environmental concern because of the possible mobilization of As, Sb, Se, Mo, Cd, Zn, and other metals, in the pH–Eh conditions of these mine waters.

Special Issue will explore all the major processes resulting from the weathering of mine wastes related to circum-neutral mine drainage. Thus, this Special Issue invites work on the geochemical processes concerning CNMW generation mechanisms, microbiological activity, and its relevance to mineral weathering and main water and gas flow and solute transport processes.

Furthermore, water quality prediction based on laboratory static and kinetic leaching tests will also be considered.

Predictive modeling tools (inverse modeling geochemical and reactive transport models) and available predictive mathematical models will be considered.

In addition, metal removal from CNMW may be considered, taking into account that mine drainage from abandoned surface and underground mines may be treated in several ways including passive remediation systems. The use of alternative reactive materials to lime and caustic soda for hydroxide precipitation has been proposed in some studies.

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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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