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Weathering of Mine Wastes: Process, Characterization and Modeling

Guest Editors:

Dr. Muhammad Muniruzzaman

Dr. Daniele Pedretti

Dr. Nicolas Seigneur

Dr. Tommi Kauppila

Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue welcomes high-quality contributions in the broad areas of mining hydrogeology, and geochemistry/mineralogy of mining waste/waste confining structures with emphasis on both fundamental and applied research. The objective is to compile recent developments in the experimental and numerical techniques as well as to document case studies applying different techniques.

The specific topics include, but are not limited to: 1) laboratory/pilot experiments, 2) field investigations, 3) advanced/innovative characterization/numerical methods, 4) application of (bio)geochemical and (single/multi-phase) reactive transport modeling, 5) application of machine learning/artificial intelligence algorithms in mining environments, and 6) influence of meteorological conditions under a changing climate.

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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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