Special Issue

Cemented Mine Waste Backfill: Experiment and Modelling

Message from the Guest Editors

Cemented mine waste backfill (CMWR) technology, which is essentially an engineered mix of aggregates (e.g., tailings and waste rock), hydraulic binder, and water, has become a fundamental component of operations in underground mines worldwide. The potential benefits of using CMWR technology include reduced environmental footprint, increased resource recovery, improved underground work environment, and lowered costs of waste rock disposal and land rehabilitation.

To promote the development of CMWR technology with desired material properties and engineering performance, a thorough understanding of the behavior of CMWR is crucially needed. This Special Issue offers an opportunity for authors to share their latest experimental and modeling results associated with CMWR technology.

Guest Editors

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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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