Special Issue

Backfilling Materials for Underground Mining, Volume II

Message from the Guest Editor

Backfilling of mined-out areas is a fundamental component of many underground mining operations. The backfill material supports the surrounding rock mass, reduces wasteful dilution, enables a safe working area for production activities, and mitigates surface subsidence risk. Combining tailing materials in the backfill makes it possible to reduce a mine's environmental footprint and assists with the final site rehabilitation. Therefore, cemented paste backfill (CPB) has become an essential component of underground mining operations...This Special Issue aims to bring together studies from all these areas, including experimental studies, constitutive model developments, analytical and numerical analyses, to characterize backfill materials. We welcome studies on mine stability and operation issues in mining with backfill, as well as backfill mining case studies.

Guest Editor

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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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