Special Issue

Cemented Paste Backfill: How Do the Components Affect the Performance?

Message from the Guest Editor

CPB is an engineering mixture produced from tailings, hydraulic binder, and water. In order for CPB to display good performance, characterization of the components, environmental conditions where CPB will be placed, short and long-term stability and durability, CPB design, underground mining operations (barricade construction, backfilling conditions and applications, blasting activities for ore extraction and vibrations etc.), possible stress of adjacent walls, geological, geotechnical and hydrogeological properties, backfilling duration of voids should also be taken into account. Otherwise, failure of the barricades, subsidence formation, loss of labour, time and equipment, wall collapses, ore dilution and heavy metal release into the waters may occur. This special issue invites research papers and relevant reviews dealing with the components/materials, strength, durability, microstructural properties, test techniques, rheology, workability, transportability, geochemical properties/acid mine drainage etc. related to the performance of CPB.

Guest Editor

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Deadline for manuscript submissions

closed (13 October 2023)

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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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