Special Issue

Reutilization and Valorization of Mine Waste

Message from the Guest Editors

Solid mine waste management is the most important environmental challenge of mining operations, because of the volume of waste produced, their permanence, and their potential geotechnical and geochemical instabilities. In the context of sustainable development and responsible mining operations, solid mine waste may offer opportunities for reuse and valorization beyond their traditional disposal. Recent research work identified options to take advantage of the physical, mineralogical, and chemical properties of waste rock, tailings, and mine water treatment sludge, either for reutilization on the mine site itself or for further use *ex situ*. This Special Issue welcomes work conducted in the following research areas: reprocessing of mine waste, desulfurization, integration of waste into mine backfill, reutilization of mine waste, value recovery from waste, co-disposal of tailings and waste rock, integration of mine waste into reclamation scenarios, etc.

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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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