Special Issue

Green Mining, Waste Recovery and Efficient Disposal of Metal Mines

Message from the Guest Editors

Metal minerals such as copper, rare-earth ores, uranium and gold are intimately related to intelligent manufacturing, electric engineering, commercial building, nuclear power and other fields, providing vital basic metal resources. The green mining of metal ores refers to mining technology that employs solution mining (copper sulfide heap leaching, rare earth in situ leaching, uranium in situ leaching, etc.), cemented/paste backfilling and other processing technologies in order to achieve the recovery of metal minerals and the efficient disposal of mine wastes. With unique advantages, such as low levels of waste discharge, low infrastructure costs, efficient mining and waste disposal, green mining is considered to be a crucial research direction for the future development of metal mines.

This Special Issue, entitled “Green Mining, Waste Recovery and Efficient Disposal of Metal Mines”, aims to provide a useful reference for industrial engineers and research scholars particularly involved in mining engineering, metallurgy engineering, minerals processing and materials science, among others.

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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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