Special Issue

Comprehensive Utilization of Metallurgical Slag

Message from the Guest Editors

Metallurgical slag contains many valuable metals and is a potential resource. The efficient extraction of metal resources from metallurgical slag and the safe disposal of tailings have long been research priorities. New methods and engineering processes for recovering key metals from metallurgical slags such as steel slag, magnesium slag, copper slag, red mud, zinc slag, and vanadium slag have emerged as a result of the development of technology, extensive research, and the pursuit of environmental friendliness. This issue encourages the author to utilize advanced pyrometallurgy, hydrometallurgy, and electrometallurgy techniques to recover metals from metallurgical slag or produce high-value products. Furthermore, the application of external field strengthening methods, microstructures, and advanced mineral characterization are of interest.

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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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