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Valorization of Metallurgical and Mining Residues and Wastes

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Message from the Guest Editors

The objective of this Special Issue is to offer an updated and profound view of recent advances in the reuse of mining and metallurgical secondary materials/byproducts/wastes, as well as to offer a complete view of the improvements in the processes involved, such as new process routes and chemical routes that concern the recovery of strategic materials, i.e., rare earth metals and manufacture of new materials that can lead to a greener environmental footprint.

Mining and metallurgical activities generate high volumes of secondary materials, in other words, byproducts such as slags, mining wastes, sludges, dusts, ore processing tailings, and leaching residues, which in several cases are damped or released “as they are” or after post-treatment to the environment. Many of them can be used after proper processing as potential raw materials. Mining and metallurgical secondary material/byproducts/wastes should not be disposed of but utilized or if possible valorized both from an economic and environmental point of view. Recycling/utilization is an essential aspect of the circular economy in order “to close the loop”.

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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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