Special Issue

Recycling and Utilization of Metallurgical and Chemical Solid Waste

Message from the Guest Editors

The discharge of solid waste is gradually increasing with the rapid development of urbanization and industrialization. The environmental pollution and resource waste caused by it are becoming increasingly prominent. How to effectively recycle and utilize solid waste and turn it into valuable resources has become a major issue faced by the world. The research on the recycling and utilization technology of solid waste is urgent. This special issue aims to introduce and discuss the mineralogical characteristics of solid waste, The mineralogical changes of solid waste during its recycling and utilization in various fields, including building materials, extraction of valuable elements, stabilization and solidification of harmful elements, carbon sequestration and low-carbon materials, as well as energy storage materials, and their impacts on the properties of related materials.

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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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