Special Issue

Advances in Harmless Disposal of Solid Waste in the Mining and Minerals Industry

Message from the Guest Editors

The objective of this Special Issue is to offer an updated and profound view of recent advances in the harmless disposal of solid waste in the mining and minerals industry, as well as to offer a complete view of second exploration of industrial value of solid waste. The mining and minerals industry generate highs volumes of solid waste, such as waste rock, tailings, slags, red mud, phosphogypsum and leaching residues, etc. Many of them can be used as potential raw materials in mine backfill, cementitious material and building material, etc., “as they are” or after proper processing. The reuse of these solid wastes can reduce their environmental pollution and generate economic benefits. Moreover, it is conducive to realizing a harmless disposal of solid waste and closed-loop management of resource development and utilization. Keywords

- mining solid waste
- minerals solid waste
- harmless disposal
- mine backfill
- tailings
- recycling
- green processes
- cementitious material
- building material
- environment-friendly

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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