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Geological and Mineralogical Control on the Environmental Risk of Potentially Toxic Elements in Mine Waste Heaps: A Risk Mitigation Perspective

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closed (15 November 2022)

Message from the Guest Editors

Dear Colleagues,

Mining produces the second largest waste stream in the world. Modern mines, as well as abandoned mines, are responsible for significant environmental damage throughout the world and can pollute air and drinking water, harm wildlife and habitat, and permanently scar natural landscapes. Acid mine drainage carrying high concentrations of potentially toxic elements (PTEs) such as Pb, As, Cd, Zn and Ni is the primary source of water and soil pollution from mining.

This Special Issue aims at bringing together state-of-the-art studies on PTE behavior in mine waste (waste rock and tailings) heaps whose focus is on the geological and mineralogical control on PTE mobility, liberation by weathering and deposition by secondary geochemical processes with a risk mitigation perspective under various climatic conditions and on effective remediation control.

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Message from the Editor-in-Chief

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