Special Issue

Retention of Metal(loid)s in Soils Contaminated by Mining and Smelting

Message from the Guest Editors

Metals and metalloids in soils represent a potential risk for the environment when they are mobilized. Therefore, recent efforts are focused on the stabilization of risk elements in situ to limit their release and bioavailability using various soil amendments. Mining and smelting areas represent specific multi-element contaminated sites with long-term leaching of contaminants from several sources, including waste rock or metallurgical residues.

The investigation of different forms of metal(loid)s (e.g., Cu, Cd, Pb, Zn, As, Sb), their stable or reactive compounds, and their behavior and transport in the environment are crucial for (i) assessing the environmental hazards, (ii) evaluating natural attenuation, and (iii) selecting the most appropriate amendment for their immobilization.

This Special Issue aims to provide a complex image on metal(loid) retention when assessing contaminants' fate and behavior in soils, with particular focus on (post-)mining and smelting areas and potentials for their remediation.

Guest Editors

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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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