Special Issue

Separation and Leaching for Metals Recovery

Message from the Guest Editor

In recent decades, the interest in urban mines has been gradually increasing. As a result, the industrial scale and case for commercialization have also been increasing dramatically. Raw materials in the urban mining industry can be divided mainly into industrial waste (including scrap) and municipal waste (including end-of-life products). Unfortunately, the current recycling research and metal recovery rates for municipal waste are much lower compared to industrial waste. Municipal waste having these characteristics is not directly processed for metal recovery, and first requires separation and concentration using a separation pretreatment. Therefore, further research is needed on the recovery and recycling of metal components from municipal wastes using a leaching process, as well as separation processes such as unit separation, dismantling/detaching, thermal decomposition, and physical separation (also referred to as mineral processing). This Special Issue aims to address the latest research on not only leaching processes but also separation processes for waste with low-content metals (including end-life products), in order to achieve economic feasibility.

Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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