Special Issue

Raw Material Supply for Lithium-Ion Batteries in the Circular Economy

Message from the Guest Editors

The energy transition relies on developing technologies to sustainably produce energy from wind, sun, and potential energy resources, among others. This energy is often intermittent, and it is, therefore, necessary to be able to store and restore it reversibly. Electric mobility is also a major contributor to reducing the impacts of human activity on the environment and the climate since it contributes to reducing greenhouse gas emissions. Lithium-ion batteries (LiBs) are at the heart of energy storage for stationary applications and electric mobility. They are now widely used in phones, laptops, portable tools, etc., and their increasing use in electric vehicles is indisputable. Both primary and secondary resources are essential to meet the raw material demand for LiB production arising from the projected huge increase in electric vehicle production in the next decade. This Special Issue aims to gather outstanding works on the sustainable supply of raw materials for lithium-ion batteries within the context of the circular economy.

Guest Editors

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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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