

Special Issue

Extraction and Recycling of Transition Metals

Message from the Guest Editor

Modern society relies on rare metals for various purposes. The supply is anticipated to become more limited in the future with the growth of the global economy. Techniques to open utilization of wastes or low-grade ores could be a key to solving such resource problems and, hence, to realize a sustainably developing society. This Special Issue focuses on transition metals essential for modern society, not only for structural materials, but also for high-tech devices and functional materials, such as electrodes, catalysts, magnets, phosphors, pigments, batteries, and so on. The objective of this Special Issue is to encourage communication among researchers broadly relating to the topic of extraction and recycling of transition metals. Contributions that explore new resources and new processes, based on either wet or dry processes, are welcome. The improvement of the efficiencies and the yields of existing processes is also within the scope of this Special Issue, as well as the mechanisms of separation processes and functional devices and materials prepared from recycled resources.

Guest Editor

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Deadline for manuscript submissions

closed (20 January 2021)



Metals

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Impact Factor 2.5
CiteScore 5.3



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About the Journal

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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