



Recovery and Extraction of Valuable Metal

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Message from the Guest Editor

Valuable metals are the basis of social development. From one point of view, the history of human social development is also the history of extraction and utilization of various valuable metals. In recent years, with the aggravation of global warming and metal resources becoming increasingly exhausted, the traditional metallurgical methods and production concepts have also changed. How to reduce environmental pollution and improve the utilization of limited resources has become a key issue. On the one hand, with the reduction in rich ores and the increase in lean ores, more efficient extraction of valuable metals from lean ores can alleviate the pressure on resources and environment. On the other hand, with the extensive use of metal resources, the recovery of secondary resources is also important for the sustainable development metallurgy.

This Special Issue of Metals will focus on the latest research on the separation, extraction and purification of valuable metals from primary resources and secondary resources, the comprehensive utilization of secondary resources or metallurgical waste and new low-cost methods with high implementation potential and high efficiency.





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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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