



Recovery and Recycling of Valuable Metals

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Message from the Guest Editor

With the rapidly growing global demand for metals, their extraction from natural minerals (as their primary sources) has been enhanced, causing a significant reduction in the grade and quality of the ores in ore deposits and leading to the production of huge amounts of waste which needs management. In light of this, new ideas to develop more advanced metal recovery technologies from minerals are required. Besides, the huge quantity of waste generated through all steps of metal production is known to be a source of environmental pollution, while its valorization can create value via recycling metals or even though use in the production of other valuable materials. The recycling of end-user products in order to reproduce valuable metals can also create significant values and reduce mining activities, and thus their harmful consequences all around the world.

In this Special Issue, the endeavor is to collect a range of articles on different aspects of valuable metal recovery and recycling from primary and secondary sources. Articles on all areas of hydrometallurgy, mineral processing, and waste recycling and valorization are highly desired.





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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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