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Advances in Valuable Metal Recycling

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Message from the Guest Editors

Recycling is recognized as the most effective way to ensure material sustainability. In general, current metal recycling based on conventional metallurgical technology needs further development with an innovative recycling approach, in order to secure the sustainability of metal resources as industrial materials. However, it is not straightforward to develop a sustainable recycling technology that is applicable globally. Fortunately, the growth of multinational companies in an era of globalization provides scope for using almost identical products the world over, resulting in secondary resources with similar characteristics and increasing the possibility of a global recycling technology. This Special Issue aims to provide a place for sharing the latest metal recycling technologies currently being researched and developed in countries around the world.

In view of this, we invite authors to submit original research and review articles that will encourage the continuing efforts to develop innovative technology for the recycling of rare metals from waste resources. We would also welcome articles that are primarily based on the R&D directed toward practical recycling processes.

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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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