Special Issue

New Technologies in Leaching and Recovery of Valuable Metals

Message from the Guest Editor

Development of science, technology and industrialization has led to an increase in the amount of waste materials containing valuable metals. Their recovery and utilization are crucial for modern society because of the increase in amount of waste that contains them on the one hand, and the depletion of primary resources (ores and minerals) on the other. Amount of metals in some waste streams could be higher than in ore deposits, which is another argument that indicates the need to develop and apply new technologies for their recovery. Moreover, decreasing metal content of some ores that are exploited today requires the development of new technologies for their extraction. Some of the requirements new technologies need to meet today include high recovery rates, low costs, reduced water and energy consumption, minimal harmful impact on the environment, possibility of simultaneous separation of few metals, and practical implementation. Articles related to the leaching and recovery of valuable metals are welcome. Hope that you will contribute to the development of this area and help to realize some of the stated requirements that new technologies should meet.

Guest Editor

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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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