Special Issue

Solvent Extraction of Transition Metals

Message from the Guest Editor

In hydrometallurgy, solvent extraction is employed for the separation of a macro amount of metal ions in aqueous solutions. The development of an effective and environmentally-friendly separation process for the recovery of valuable metals is necessary. Recently, ionic liquids have been used as an extractant, which enlarges the scope and the feasibility of solvent extraction. Considering the diversity of the nature of metal ions in the leaching solution and the similarities in chemical properties, more fundamental research is needed to understand the reaction. Papers on recent advances and review articles, particularly with regard to fundamental chemistry and the development of the solvent extraction of transition metals by employing commercial extractants and ionic liquids are invited for inclusion in this Special Issue on the "Solvent Extraction of Transition Metals".

Guest Editor

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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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