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Utilization of Industrial By-Products—Recovery of Rare Earth Elements

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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

An industrial by-product is a production residue from an industrial process that is not a waste, with a minor net realizable value (NRV) when compared with the main products. As economically exploitable minerals containing REEs are very scarce, the available stockpiles have decreased and the recovery of REEs from their deposits is difficult due to the coexistence of radioactive elements; therefore, it is necessary to investigate the potential to recover REEs from different industrial byproducts. These industrial streams contain relatively low concentrations of REEs in comparison to primary ores, but large volumes are available, and therefore they could become economically attractive secondary sources of REEs. This Special Issue aims to publish papers dealing with the recovery of REEs from different industrial-by products.

This SI is cooperating with the conference ERES2020. Selected papers (extended abstracts) from the conference, will be invited to contribute to the special issue with 20% discount. All submitted papers to this special issue will undergo a separate review process according to the journal's practice.

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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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