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Rare-Earth Compounds for Advanced Functional Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editor

Dear Colleagues,

According to IUPAC, the rare-earth elements comprise 17 chemical elements, including 15 lanthanides plus scandium and yttrium. They have found applications in many contemporary technologies, such as communication and consumer electronics, catalysts, lighting products, displays, ceramics, advanced optics, batteries, fuel cells, and permanent magnets, to name a few. In addition, rare-earth elements are also increasingly being used in other niche markets, which encompass nuclear technologies, laser or microwave crystals and garnets, carbon arc lights, textiles additives, paint siccatives, alloys for magnetic refrigeration, etc. Therefore, there is a strongly increasing worldwide research activity concerning rare-earth elements.

Thus, the upcoming Special Issue, entitled "Rare-Earth Compounds for Functional Applications", aims to provide an overview of compounds based on rare-earth elements as advanced functional materials. Toward this end, it is my pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

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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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