Special Issue

Rare Earth Compounds

Message from the Guest Editor

Rare earth compounds represent a very wide class of materials with interesting physical properties. In particular, the magnetic and transport properties are interesting and often discussed in the context of the electronic structure. Interesting phenomena that are observed in these materials also appear as a result of changes in their chemical composition, the use of high magnetic fields or high pressure. In recent years, these studies have been extended to rare-earth compounds that have been shredded into nanometric sized powders. Many new achievements have become possible thanks to the use of modern research techniques, including spectroscopic methods. This Special Issue is expected to collect articles containing recent progress and new achievements regarding all aspects of rare earth compounds. The original results regarding the fabrication, characterization, experimental investigations, theoretical calculations and practical applications are welcome.

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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