Special Issue

Magnetic Studies of Complex Alloys

Message from the Guest Editor

The research on complex alloys is still increasing. The term *complex alloys* denotes a broad family of binary or multinary compounds consisting of, e.g., either metallic elements or mixtures of metals to which metalloids, rare earth elements, or chalcogenides are added. Their crystal structure is based on very large elementary unit cells. The use of the term *complex* and the discussion of complexity are rapidly increasing in last years. The main aim is to find new materials that are eco-friendly and substitute the gases used in conventional refrigerators in the vicinity of room temperature. Finding new progressive materials with these effects is important to meet the needs of space research. A further example is finding materials applicable in information technologies, where magnetoresistance is crucial. The goal of this Special Issue is to collect articles mainly concerning the frontiers of research on the magnetic properties of complex alloys. Both experimental and theoretical approaches are encouraged, and review articles are welcome. Research articles on the development of measurement and analysis methods to assess these materials 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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