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Physical Properties of Amorphous, Nanocrystalline, High Entropy and Lanthanides-Transition Metal Alloys

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Message from the Guest Editors

Recent studies suggest that the ideal MCM lays on the border between first- and second-order phase transition, due to the fact that it combines a relatively high magnetic entropy change and broad temperature working range. This kind of alloy possesses applicative potential in active magnetic regenerators in magnetic refrigerators or heat pumps.

This Special Issue will focus on magnetic alloys based on materials with an amorphous, nanocrystalline or crystalline structure. We welcome original results regarding the chemical composition, production, and investigation of magnetic materials, especially those with enormous magnetic properties. Manuscripts concerning the modeling of magnetic properties confirmed through experimental techniques will also be considered, as well as partially glass alloys, nanostructured or crystalline magnetic materials.

We invite you to submit full papers, reviews or communications to this Special Issue. In all cases, the papers must demonstrate novelty and be relevant to the scope of the Special Issue.



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Special Issue



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Message from the Editor-in-Chief

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