



Magnetism and Magnetic Properties of Amorphous Alloys

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Message from the Guest Editors

The Special Issue addresses original studies related to materials, simulations, characterization and technological applications, namely:

- Magnetic materials, with an emphasis on magnetostrictive, magnetoelectric and ultrasoft magnetic transition alloys, especially medium- to high-entropy amorphous alloys;
- Characterization of these amorphous alloys: magnetic characterization, namely magnetic, magnetostrictive, magneto-transport, magnetoelectric, magnetocaloric and other magnetic properties;
- Structural characterization of these amorphous alloys, using scanning and transmission electron microscopy, X-ray diffraction, XPS, and AFM-MFM-STM surface characterization;
- Correlation of magnetic and structural properties, based on micro-magnetics modeling, finite elements analysis, density function theory-based magnetic modeling, and other simulation techniques;
- Technological applications in the field of (energy, industrial, security, biological, etc.) sensors, actuators, energy harvesting systems, automated systems and other technological applications.



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Special Issue