

Special Issue

Magnetism and Magnetic Properties of Amorphous Alloys

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.

Welcome to [Contribute!](#)

Guest Editors

Prof. Dr. Evangelos Hristoforou

Prof. Dr. Aphrodite Ktena

Prof. Dr. Jon Gutiérrez Etxebarria

Deadline for manuscript submissions

closed (31 December 2024)



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Magnetism
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
magnetism@mdpi.com

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About the Journal

Message from the Editor-in-Chief

New phenomena and technological applications of magnetism are fascinating topics. The *Magnetism* journal aims to establish an international forum where both basic and applied developments in this field can be shared, on a budget-level peer-review publishing platform with other experts and non-specialists. The journal is inviting contributions from authors who wish to share their original work in any field related within this area, including fundamental mechanisms, theoretical models, novel magnetic materials and devices, magnetic nanostructures, magnetic recording, biomagnetism, etc. The journal will facilitate the author's process of submission and the peerreview steps for a high-quality and timely publication in order to reach the widest audience.

Editor-in-Chief

Dr. Gerardo F. Goya

Instituto de Nanociencia de Aragon (INA), University of Zaragoza, 50018 Zaragoza, Spain

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 37.5 days after submission; acceptance to publication is undertaken in 5.6 days (median values for papers published in this journal in the first half of 2025).