

Special Issue

Mathematical Modelling and Physical Applications of Magnetic Systems

Message from the Guest Editors

The aim of this Special Issue is to attract world-leading scientists to present the latest exciting theoretical and experimental results in the field of low-dimensional magnetic systems, discussing their underlying physics in different magnetic configurations and suggesting concrete applications. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- ferromagnetic and antiferromagnetic materials
- low-dimensional magnetic systems
- spin-wave excitations
- spin-transfer torque
- spin-polarized current and spin-Hall effect
- magnetic solitons
- magnonic crystals
- magneto-photonic crystals
- magnetoelastic effect
- quantum magnets

We look forward to receiving your contributions

Guest Editors

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Prof. Dr. Giancarlo Consolo

Dr. Israa Medlej

Deadline for manuscript submissions

closed (31 July 2025)



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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

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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).