

Special Issue

Functional Magnetic Materials and Devices: Recent Advances and Applications

Message from the Guest Editors

The Special Issue will encompass all areas of functional magnetic materials, including magnetic materials, diluted magnetic semiconductors, electromagnetic radiation-absorbing magnetic materials, micromagnetic simulation, and ferromagnetic resonance. It will include topics about the properties, characterization, devices, instrumentation, and applications of magnetic materials. Topics such as magnetic materials applied to human and biological science are welcome. Magnetic materials applied to sensors, electronic devices, and other areas are the focus of the present Special Issue, and studies about core@shell nanoparticles, nanometric films, and nanowires are some examples of magnetic systems. We invite you to submit original research articles that belong to any of the following categories: Magnetic properties; Hard magnetic materials; Soft magnetic materials; Magnetocaloric materials; Magnetic nanoparticles; Magnetic materials in data storage; Magnetization reversal dynamics; Micromagnetic models; Smart composite materials; Magnetic nanostructures; Machine learning for property predictions in materials; Magnetic biosensors.

Guest Editors

Dr. R. Raudel Peña-Garcia

Academic Unit of Cabo de Santo Agostinho, Federal Rural University of Pernambuco, Cabo de Santo Agostinho 54589-899, Brazil

Dr. Yuset Guerra Dávila

Institute of Physics, Federal University of Alagoas, Maceió 57072-900, AL, Brazil

Deadline for manuscript submissions

closed (20 February 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/183281

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

[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)