Special Issue

Exploring the Magnetic World: Advances in Synthesis, Characterization, and Revolutionary Applications of Magnetic Nanoparticles

Message from the Guest Editors

The Special Issue aims to showcase the latest research and developments in the field of nanomagnetism. Magnetic nanoparticles, with their unique properties at the nanoscale, have garnered significant attention due to their potential for revolutionizing various fields. These nanoparticles exhibit magnetic behavior that differs from their bulk counterparts, enabling them to exhibit enhanced magnetic properties, tunability, and diverse functionalities. They offer immense potential for applications such as targeted drug delivery, magnetic data storage, biosensors, catalysis, and spintronics.

This Special Issue will encompass a wide range of topics, including innovative synthesis methods, cutting-edge characterization techniques, and emerging applications of magnetic nanoparticles. This multidisciplinary field encompasses the synthesis, characterization, and utilization of magnetic nanoparticles with diverse applications spanning medicine, electronics, energy, and more. This Special Issue intends to foster collaboration and knowledge exchange among researchers working in different disciplines to further propel the field of nanomagnetism.

Guest Editors

Dr. Rajni Verma

Nanospinic Laboratory, Research Institute of Advanced Materials, Department of Materials Science and Engineering, Seoul National University, Seoul 151-744, Republic of Korea

Dr. Saurabh Pathak

Department of Materials Science and Engineering, Seoul National University, Seoul, Republic of Korea

Deadline for manuscript submissions

closed (20 April 2025)

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/178404

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

mdpi.com/journal/crystals

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/journal/crystals

MDPI

About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, 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), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)