Special Issue

Advances in Magnetic Nanomaterials: Design, Synthesis, and Applications

Message from the Guest Editor

Magnetic nanomaterials have emerged as a rapidly expanding field with significant implications across various medical, scientific and technological domains. The improvements of these materials could lead to significant advances in sensor technologies, achievable data storage densities, energy harvesting, and targeted drug delivery. We invite researchers, scientists, and engineers to contribute to this *Nanomaterials* Special Issue, "Advances in Magnetic Nanomaterials: Design, Synthesis, and Applications", with original research articles, reviews, perspectives, and case studies. We welcome manuscripts presenting new effects observed in magnetic nanostructures, as well as writings on their novel synthesis methods, applications, and theoretical calculations related to the topic. Additionally, we encourage researchers to include the application of artificial intelligence and interdisciplinary tools in their work.

Guest Editor

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Deadline for manuscript submissions

closed (10 May 2026)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 10.3
Indexed in PubMed

mdpi.com/si/231818

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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