nanomaterials

IMPACT FACTOR 4.4

Indexed in: PubMed

CITESCORE 8.5

an Open Access Journal by MDPI

Nanostructured Magnetic Materials and Technologies for Green Future

Guest Editor:

Prof. Dr. Alexander M. Tishin
1. Physics Faculty, M.V. Lomonosov Moscow State University, Leninskie gory 1-2, 119991 Moscow, Russia
2. AMT&C Group, Promyshlenaya Street 4, 108840 Troitsk, Russia

Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editor

Nanostructured magnetic materials (NMMs) may be considered the basis for raw energy, medical, and other applications. Each of us knows that in the process of human activity a huge amount of thermal energy is dissipated around us. This, along with other factors, contributes to an increase in ambient temperature and other currently observed climate changes. Therefore, increasing the efficiency of the devices used for generating, converting (into mechanical work), and storing electricity, as well as extracting energy (heat) from the environment, is an urgency. This problem cannot be solved without the radical improvement of the properties of permanent magnets (PM), magnetic cores, electrical steels, and other materials used for such devices.

This special issue will be devoted to NMMs which can significantly affect the green future of our planet. Therefore, the properties of hard and soft magnetic materials, production and recycling technologies, together with advanced applications for generation, transformation, utilization, accumulation, and extraction of green energy will be in focus of this special issue.

nanomaterials

IMPACT FACTOR 4.4 | Indexed in: PubMed | CITESCORE 8.5

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

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.

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), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.
Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
𝕏@nano_mdpi