





an Open Access Journal by MDPI

Ferromagnetic, Ferroelectric, and Multiferroic Oxide Nanopowders, Nanoceramics, and Thin Films

Guest Editor:

Prof. Dr. Sergei Trukhanov

Scientific Practical Materials Research Centre of National Academy of Sciences of Belarus, Minsk. Belarus

Deadline for manuscript submissions:

closed (31 March 2023)

Message from the Guest Editor

Oxide compounds of multiferroics are most in demand because of their chemical resistance during domestic use. as this is operation in an oxidizing air atmosphere. Ferrites, complex oxides of iron cations with various crystal structures such as the structure of perovskite, spinel, garnet and magnetoplumbite, are the basic class of compounds for the search for room temperature multiferroics, since they most often have spontaneous long-range magnetic and dielectric orders. The production of iron oxide compounds in nanoform, such as nanopowders, nanoceramics and thin films, very often leads to the desired results due to the appropriate distortion of the unit cell and the appearance of conditions for the occurrence of spontaneous polarization. The combination of spontaneous intense values of magnetization and polarization in nanoscale iron oxide compounds is very promising from a practical point of view.









CITESCORE 7.4

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, 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, metalorganic 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 - Q1 (*Physics, Applied*) / CiteScore - Q1 (*General Chemical Engineering*)

Contact Us