nanomaterials

IMPACT FACTOR 4.4 | Indexed in: PubMed | CITESCORE 8.5

an Open Access Journal by MDPI

Recent Progress in Rare-Earth Functional Nanomaterials

Guest Editors:

Prof. Dr. Fan Wu
Department of Chemistry, School of Science, Tianjin University, Tianjin 300072, China

Dr. Yujing Zhang
School of Materials Science and Engineering, Nanjing University of Science and Technology, Nanjing 210094, China

Deadline for manuscript submissions:
closed (20 April 2024)

Message from the Guest Editors

Dear Colleagues,

Rare-earth elements are valuable strategic resources known for their unique physical and chemical properties. Nanostructured rare-earth materials, with their exceptional size, structure, and properties, exhibit remarkable functionalities that surpass conventional materials. In addition, these nanomaterials possess distinct optical, electrical, thermal, and magnetic properties that create novel characteristics.

We welcome contributions devoted to nanostructured rare-earth materials. Research areas may include (but are not limited to) the following:

1. Design and preparation of rare earth-based, electromagnetic wave-absorbing nanomaterials;
2. High-performance rare earth-based magnetic materials;
3. Rare earth-based hydrogen storage materials and their applications;
4. Precision processing of rare earth precursors and polishing materials;
5. Rare-earth luminescent materials and photoelectric devices;
6. New testing and characterization methods in rare-earth nanomaterials;
7. Review articles on the progress of rare earth-based, electromagnetic wave-absorbing nanomaterials.

Prof. Dr. Fan Wu
Dr. Yujing Zhang
Guest Editors

mdpi.com/si/187229

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