

Special Issue

Lanthanide-Doped Inorganic Luminescent Nanomaterials for Optoelectronic Applications

Message from the Guest Editor

Lanthanide-doped inorganic luminescent nanomaterials have garnered significant attention in recent years due to their unique optical properties and potential application in various optoelectronic devices. These materials typically consist of a host matrix doped with lanthanide ions, which exhibit characteristic luminescence upon excitation. Lanthanide-doped inorganic luminescent nanomaterials can be employed in various fields, including optoelectronics, biomedical imaging, sensing, lighting, and security. This Special Issue welcomes contributions from various scientific and engineering communities, and is particularly interested in studies on inorganic materials such as oxides, phosphates, or fluorides, which are doped with lanthanide ions. This Special Issue aims to present recent advances in lanthanide-doped inorganic luminescent nanomaterials as a versatile class of materials with applicative potential in optoelectronic devices, driven by their unique optical properties and tunable luminescence. We welcome the submission of original research articles and reviews.

Guest Editor

Dr. Lei Lei

Institute of Optoelectronic Materials and Devices, Key Laboratory of Rare Earth Optoelectronic Materials and Devices of Zhejiang Province, China Jiliang University, Hangzhou 310018, China

Deadline for manuscript submissions

closed (20 January 2025)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/207192

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

[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)





Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)