Special Issue

Applications of Nanomaterials in Light Emitting Diodes

Message from the Guest Editors

Light-emitting diodes (LEDs) have emerged as a highly promising technology for lighting, displays, and optoelectronic devices. The integration of nanomaterials into LEDs has significantly advanced the field, offering enhanced performance, improved efficiency, and new functionalities. This Special Issue aims to cover various topics related to the application of nanomaterials in LEDs. We invite original research articles, short communications, and systematic reviews for this Special Issue. The scope includes, but is not limited to:

- The synthesis and characterization of nanomaterials tailored for LED applications, such as quantum dots, nanowires, and perovskites;
- The fabrication and optimization of LED devices via the incorporation of nanomaterials into device architectures.

By encompassing a broad spectrum of topics, this Special Issue aims to provide valuable insights into the advancements and challenges in the field of nanomaterial-integrated LEDs. We encourage researchers in the field to contribute pioneering work, contributing to our collective understanding and future development.

Guest Editors

Dr. Xiaoli Zhang
School of Physics and Opto-Electronic Engineering, Guangdong University of Technology, Guangzhou 510006, China

Dr. Weigao Wang
College of Physics and Optoelectronic Engineering, Shenzhen University, Shenzhen 518060, China

Deadline for manuscript submissions

closed (20 February 2024)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/177244

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

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

MDPI

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.

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

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