# **Special Issue**

# Optical Properties of Semiconductor Nanomaterials: 2nd Edition

### Message from the Guest Editors

Semiconductor nanomaterials are promising for nextgeneration applications in many fields, such as energy harvesting, electronic and optoelectronic devices, chemical and biosensors, and catalysts at the nanoscale. A major feature of semiconductor nanomaterials is that their unique optical properties differ significantly from the bulk material due to their quantum size effect or large surface-to-volume ratio. The optical properties of semiconductor nanomaterials are not only related to their atomic structure and electronic properties, but also strongly correlated with their shape, size, and surface functionality, making them attractive objects of fundamental research and novel potential applications. We are pleased to invite you to submit a manuscript to this Special Issue. This Special Issue aims to collect the latest experimental and theoretical research articles on the optical properties of semiconductor nanomaterials and their applications. The scope of this Special Issue addresses the preparation, characterization and application of semiconductor nanomaterials. Original research articles and reviews are welcome.

### **Guest Editors**

Prof. Dr. Ruifeng Lu

Prof. Dr. Kun Zhao

Dr. Chao Feng

Dr. Ya Bai

Dr. Liang Gao

## Deadline for manuscript submissions

closed (20 February 2025)



# **Nanomaterials**

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/182053

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



## **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 nanometerscale 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 )

