Special Issue

Promising Applications for Luminescence Properties of Carbon Dots and Quantum Dots

Message from the Guest Editor

This Special Issue aims to present and disseminate the most recent advances related to the synthesis, luminescence properties, mechanism research and promising applications of all types of carbon dots and quantum dots. Topics of interest for publication include, but are not limited to, the following:

- Synthetic routes and surface modification of carbon dots and quantum dots;
- Luminescence regulation mechanisms and photophysical property research;
- Fluorescence sensing and environmental detection applications;
- Bioimaging, biosensing and biomedical applications;
- Optoelectronic devices based on carbon dots and quantum dots;
- Photocatalysis and energy conversion applications;
- Information anti-counterfeiting and optical encryption applications;
- Composite luminescent nanomaterials;
- Stability optimization and large-scale manufacturing technologies;
- Emerging novel applications of luminescent carbon dots and quantum dots.

Guest Editor

Prof. Dr. Yafang Wang
School of Science, China University of Geosciences, Beijing 100083, China.

Deadline for manuscript submissions

30 November 2026

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 10.3
Indexed in PubMed

mdpi.com/si/281635

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

mdpi.com/journal/nanomaterials

MDPI

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 10.3
Indexed in PubMed

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

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

MDPI