Special Issue

Perovskite Nanomaterials for Photovoltaic and Optoelectronic Devices

Message from the Guest Editor

The Special Issue will cover a broad range of topics related to the use of perovskite materials, including perovskite QDs, perovskites nanomaterials, etc., in the design and fabrication of light-emitting diodes (LEDs), solar cells, photodetectors, and other optoelectronic devices. Topics of interest include but are not limited to the synthesis and characterization of perovskites, the design of perovskite-based LED/Solar cells architectures, and the optimization of devices performance through perovskite engineering. This Special Issue will provide a platform for researchers to share their recent advances in perovskite nanomaterials for photovoltaic and optoelectronic devices and serve as a valuable resource for scientists and engineers working in optoelectronics.

Guest Editor

Dr. Xiaoli Zhang

School of Physics and Opto-Electronic Engineering, Guangdong University of Technology, Guangzhou 510006, China

Deadline for manuscript submissions

closed (23 May 2025)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/218873

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)