

Special Issue

Innovations in Optical Materials: Properties, Applications and Devices

Message from the Guest Editor

This Special Issue aims to highlight the latest research findings and innovative technologies focused on optical materials. Recent advances in photonic crystals, nanowires, quantum dots, nanodiamonds, 2D materials, and perovskites have led to various innovative technologies for nanofabrication, energy generation, and quantum information processing. This Special Issue also explores current trends in the use of optical materials in devices, such as photovoltaic cells, light-emitting diodes, or light-emitting transistors. By bringing together interdisciplinary perspectives from materials science, dentistry, and clinical applications, this Special Issue aims to provide a comprehensive overview of the current state and future directions of research in the field of optical materials. Areas of interest for this Special Issue include, but are not limited to, the following topics:

- Design, synthesis, and characterization of optical materials;
- Innovations in photonic crystals and their applications;
- Nanowires and their roles in optical and optoelectronic devices;
- Two-dimensional materials for photonics and electronics;
- Advanced nanofabrication methods for optical materials.

Guest Editor

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Deadline for manuscript submissions

20 October 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/263077

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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