Special Issue

Research on New Optoelectronic Materials and Devices

Message from the Guest Editor

Welcome to this Special Issue focusing on the exciting field of research on new optoelectronic materials and devices. With the continuous advancements in technology, there is a growing need for efficient and high-performance optoelectronic technologies. This Special Issue invites researchers, scientists, and engineers from around the world to contribute their original research papers. We welcome submissions that explore a wide range of topics related to new optoelectronic materials and devices. This includes, but is not limited to:

- Synthesis and fabrication techniques for innovative optoelectronic materials;
- Characterization and analysis of optical and electronic properties of novel materials;
- Design and development of high-performance optoelectronic devices;
- Applications of new optoelectronic materials in areas such as solar cells, LEDs, and sensors;
- Advances in theoretical simulations and modeling of optoelectronic materials and devices.

We encourage authors to submit their manuscripts presenting groundbreaking findings, experimental results, and theoretical insights.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/183615

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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