Special Issue

Optoelectronic Semiconductor Materials and Devices

Message from the Guest Editor

Optoelectronic semiconductor materials possess unique properties that allow them to manipulate and control light–matter interactions, making them essential for the development of various optoelectronic devices. These materials find applications in areas such as photonics, solar cells, light-emitting diodes, sensors, and optical communications. Understanding the fundamental properties, fabrication techniques, and performance optimization of these materials is vital for unlocking their full potential and driving further advancements in optoelectronics.

This Special Issue welcomes contributions on a wide range of topics related to optoelectronic semiconductor materials and devices. We invite researchers, scientists, and engineers from around the world to submit their original research papers, reviews, or perspective articles to this Special Issue. By sharing your insights and findings, you will contribute to the collective knowledge and advancement of optoelectronic semiconductor materials and devices.

Guest Editor

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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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