Special Issue

Optoelectronic Materials: Structure, Properties and Applications

Message from the Guest Editor

In recent years, optoelectronic materials have attracted considerable interest due to their potential for the development of technological devices. Among optoelectronic components there is a broad range of materials, including organics, inorganics, and hybrids. In this sense, new materials have been intensively studied for their applications, such as light-emitting diodes (LEDs and OLEDs), photo detectors, lasers, solar cells, and optical amplifiers. The aim of this Special Issue, "Optoelectronic Materials: Structure, Properties and Applications", is to highlight the latest advances in optoelectronic research. The scope covers the synthesis and structural characterization of materials (organic and inorganic), the study of the electronic and optical properties, and the possible technological applications. The topics of interest for publication include but are not limited to the following:

- Laser technology;
- Nanophotonic materials;
- Nonlinear photonics;
- Optical amplifiers;
- Optoelectro-mechanical systems;
- Optoelectronic devices;
- Optoelectronic materials;
- Optical sensors;
- Photonic applications;
- Ultrafast optoelectronics;
- Color displays.

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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