Special Issue

Materials for Optoelectronic Applications

Message from the Guest Editor

The development of cutting-edge optoelectronic devices, defined as electrical-to-optical or optical-to-electrical transducer mediums, is rapidly changing science and industry. This Special Issue, titled “Materials for Optoelectronic Applications”, addresses current progress and challenges with respect to materials in view of the development of the latest optoelectronic devices. For this Special Issue, 1) studies on the synthesis of new materials, ranging from small molecules to macromolecules to inorganic materials and their relevant electrical and optical characterizations, and 2) studies on novel structures with a variety of dimensionalities and their applications in relevant devices, such as photovoltaics, light-emitting diodes, and photonic crystal devices, are preferred, but the scope of this Special Issue is not limited to them. I would like to invite you to submit full papers, reviews, or communications related to emerging materials for optoelectronics and their device applications to this Special Issue. **Keywords**

- emerging materials for optoelectronics
- semiconductors
- photovoltaics
- light-emitting diodes
- photonic crystals

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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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