Special Issue

Thin-Film, Low-Dimensional Materials and Their Heterojunctions for Optoelectronic Applications

Message from the Guest Editor

You are cordially invited to contribute to this Special Issue of Materials, entitled “Thin-Film, Low-Dimensional Materials and Their Heterojunctions for Optoelectronic Applications”.

The technology for obtaining new optoelectronic materials, especially in film form, is a rapidly developing field of integrated photonics.

This Special Issue is focused on all types of thin-film materials and the heterostructures based on them, tackling (but not limited to) the following topics:

Fabrication processes for thin films and thin-film-based heterostructures for application in optoelectronics;
Properties of thin films for optoelectronic applications;
Properties of thin-film-based heterostructures for optoelectronic applications;
Theoretical modeling of materials, interfaces, and low-dimensional properties for optoelectronic applications;
Terahertz detector and terahertz generation;
Metamaterials for optoelectronic applications.

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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