Special Issue

Advances in Optoelectronic Functional Thin Films

Message from the Guest Editor

Functional thin films have attracted high interest in a large variety of applications due to their versatility and compactness. Their structure can be single- or multilayered, where each layer can be crystalline or amorphous, single component or a nanocomposite. They can be produced by a variety of thin film deposition techniques, such as thermal evaporation (TE), magnetron sputtering (MS), pulsed laser deposition (PLD), matrix-assisted pulsed laser evaporation (MAPLE), spin-coating (SC), or the Langmuir–Blodgett (LB) method. This Special Issue entitled 'Advances in Optoelectronic Functional Thin Films' targets subjects where the interplay between light as electromagnetic radiation and the electronic and electrical properties of a thin film's structure provides the latter with functionality. This way, we may explore photodetectors, optical planar waveguides, optical phase-change memory applications, light-induced or light-controlled diffusion processes in thin films (also known as photodoping), or any other exciting optoelectronic processes which lend thin films functionality.

Guest Editor

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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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