Special Issue

Growth and Applications of Oxide Thin Films and Heterostructures

Message from the Guest Editors

The aim of this Special Issue is to focus on novel advances, original and innovative studies in various research fields, having in common the possibility of increasing the functionality of devices based on thin oxide layers and/or heterostructures obtained through efficient deposition techniques. Thus, it will bring together new trends in the deposition of thin oxide films by magnetron sputtering, thermal evaporation, and laser, among others, but also new technological paths for obtaining improved heterostructures, focusing on their application side. We welcome papers describing opto-electrical applications based on oxide layers with desired properties from the initial bulk material, as well as combinations of different oxides in controlled heterostructures with macro-engineered properties. Studies can cover different topics, ranging from the relationship between different preparation approaches to the correlation of results obtained from the structural and opto-electrical characterization of films and the functionalization of the target device produced by high-performance deposition.

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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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