Special Issue

Nano-Structured Thin Films: Growth, Characteristics, and Application

Message from the Guest Editor

Thin-film materials are thin metal substances or organic substances materials with thicknesses ranging from a single atom to a few millimeters. Electronic semiconductor devices and optical coatings are the main applications of thin film technology today. Thin film technology has a wide range of applications. Many researches have used different thin films for computer storage devices, pharmaceuticals, manufacturing thin-film batteries, dye-sensitized solar cells, and more. In addition, the ceramic thin films also have a wide range of applications. To the relatively high hardness of ceramic materials, such films were used to protect substrates from corrosion, oxidation, and wear. The present Special Issue of *Nanomaterials* aims to present nano-structured thin films, specifically their growth, characteristics, and application in various fields of technology and science. In the present Special Issue, we invited contributions from leading groups in the field with the aim of providing a balanced view of the current state-of-the-art in this discipline.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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