Special Issue

Nanostructured Thin Films: Deposition Methods, Properties and Applications

Message from the Guest Editors

Nowadays, nanostructured thin films are widely utilized for many purposes in a variety of fields, particularly focused on future technologies. Their fabrication via several methods, crystalline character, compositional phases, thickness from nanometers to micrometers, and their nanostructuration possibilities provide systems with a multitude of specific properties to be studied and employed in many applications. In addition, their research field is extensive, covering optics, electronics, catalytic systems, energy and biomaterials, among others. Studies involving traditional and novel methodologies for the preparation of nanostructured thin films, their properties and characteristics, including the use of advanced techniques such as Raman microscopy and synchrotron radiation-based techniques for the study of systems, as well as the use of computer modeling and simulations to predict the properties and mechanisms and applications of films, are very welcome.

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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.

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