Special Issue

Nanostructured Thin Films: Growth, Properties and Applications

Message from the Guest Editors

Due to their special nanostructures, nanostructured thin films behave differently than bulk materials of equivalent chemical composition. The ability to control or modify the morphology, microstructures, and chemical composition of thin films at the micrometer and/or nanometer scale opens vast opportunities to tailor the properties of the thin films. Thin films have been developed as an enabling component for a wide range of applications, including solar cells, light-emitting diodes, smart windows, sensors, batteries, and photocatalytic platforms. Nanostructured thin films will not only enhance these traditional applications, but also enable emerging applications such as metamaterials, flat optics, thermoelectric, etc. This Special Issue aims to highlight the state of knowledge in the growth, characterization, properties, and potential applications of nanostructured thin films. It is our pleasure to invite you to submit your work to this Special Issue. Original research articles and reviews are both welcome. We look forward to your contributions. See more information in
https://www.mdpi.com/si/178212

Guest Editors

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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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