

Special Issue

New Research Trends and Developments in Nanostructured Materials: Thin Films and Nanotechnology

Message from the Guest Editors

Due to their distinct, size-dependent physicochemical features, nanostructured thin films have garnered a great deal of attention in recent years. As a result, they have been used as promising materials for a variety of applications, such as electrocatalysis, smart coatings, efficient drug delivery systems, and very sensitive sensors. Nanostructured films have been constructed and produced by adjusting their atomic-molecular 2D and/or 3D aggregation, thickness, crystallinity, and porosity, as well as their optical, mechanical, catalytic, and conductive properties, depending on the applications and the deposition method. Contrarily, there are unanswered questions regarding how the creation of nanomaterials and their daily use may impact the environment and human health. Recently, a great deal of work has been put into the development of nanomaterials that use a variety of tactics to protect, support, and govern the environment, in addition to preventing nanotechnologies and nanomaterials from contributing to environmental contamination. This Special Issue will attempt to cover recent developments in the design of nanostructured films with an emphasis on environmental issues.

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