

Special Issue

Design and Development of Advanced Thin Films Based on Nanocomposites

Message from the Guest Editors

Nowadays, nanocomposites based on thin films are receiving increasing attention from both fundamental scientific research and technological applications. They are emerging as a compelling class of advanced functional nanomaterials that can be used in various applied areas such as electronics, spintronics, energy, environmental protection, and so on. Nanocomposites are characterized by improved properties due to the synergistic effect of combining the desirable characteristics of their components materials. Therefore, given the multidisciplinary aspect of the nanomaterials research area, this Special Issue invites authors to submit research or review articles on the synthesis, characterization and/or applications of nanocomposite-based thin films. Potential topics include, but are not limited to, the following:

- Nanostructured thin films;
- Metal oxides, semiconductors, metals, dielectrics, carbon nanostructures;
- Synthesis by dry (thermal oxidation, magnetron sputtering) and wet (solution processing) methods;
- Preparation by laser and vapor deposition techniques;
- Magnetic properties;
- Characterization;
- Applications;
- Devices

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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