

Recent Advancement in Thin Film Deposition, Characterization, and Surface Engineering (Second Volume)

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Message from the Guest Editors

Dear Colleagues,

Thin film deposition, characterization, and surface engineering are eminent topics, attracting significant interest among the scientific community. The subjects include the experimental, theoretical, and fabricating issues associated with the development of new thin film materials and processes, novel methods of analysis and characterization, and approaches for industrial applications. This Special Issue focuses on science and engineering for a wide spectrum of aspects related to thin films, coatings, and plasma technologies for sustainable energy, semiconductor, optoelectronics, flexible device, tribological, organic, biological, protective, and functional surface engineering.

The topics of interest for this Special Issue, in particular, include (but are not restricted to):

- Nanostructured and nanocomposite thin films;
- Semiconductor, optoelectronic, and flexible device thin films;
- Tribological and protective thin films;
- Sustainable energy thin films;
- Organic and biological thin films;
- Metallic and high-entropy alloy thin films;
- Theory, simulation, and modeling; quantitative surface analysis of thin films.



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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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