Special Issue

Recent Advances in Functional Metal Oxide Thin Films

Message from the Guest Editors

Oxide thin films have applications in a variety of energy and information technologies, including photovoltaics, thermoelectrics, piezoelectrics, magnetoelectrics, dielectrics, electron and ion conductors, and resistive switching. Single thin films or more complex multilayer systems are used. Functional oxides are the most attractive materials with varying degrees of structural complexity, which continue to stimulate many research projects in the fields of physics and materials science. The overall goal of this collection of papers is to stimulate a broad discussion of advances in thin film materials physics and chemistry.

This Special Issue will serve as a forum for papers on the following concepts:

- Theoretical research and knowledge of the growing mechanisms of oxide thin films.
- Experimental investigation research and new ideas in deposition technics of oxide thin films.
- Investigation of thin films' functional properties' dependence on synthesis parameters.
- Methods of improvement of the functional properties of thin film oxide materials.
- Novel investigation technics of oxide thin films' functional properties.

Guest Editors

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Deadline for manuscript submissions

closed (10 August 2025)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/191713

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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.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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