

Special Issue

Advanced Metal Oxide Films: Materials and Applications

Message from the Guest Editor

Metal oxide films, and in particular, transition metals, have been utilized in the largest number of applications in modern technology. They are used as charge-transport layers in third-generation solar cells, as cathodes in metal-ion batteries, and as gate dielectrics in OFETs, and are widely used in various spintronic devices, among other applications. Despite an impressive number of works both on the practical application of metal oxide films and on the study of their fundamental properties, there are still many unresolved issues. This Special Issue of *Coatings* is devoted to new methods for producing oxide films, studying their properties, and creating new functional materials and devices based on them. It is my pleasure to invite you to submit a manuscript to this Special Issue. The topics of interest include, but are not limited to, the following: Novel charge-transport layers based on ZnO, SnO₂, TiO₂, etc.; Diluted magnetic semiconductors; Biocompatible films; Catalysts; Sensors; Lithium-ion battery cathodes; Luminescent materials.

Guest Editor

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About the Journal

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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