

Special Issue

Advances in Oxide Thin Films and Nanostructures

Message from the Guest Editor

Oxide materials have gained importance in recent years with a wide variety of uses. Tunable electronic and optical properties of these materials are obtained by in situ and post-treatments. Furthermore, the morphology of these materials can easily be manipulated by controlling the synthesis parameters. Therefore, 0D, 1D, and 3D nanostructures can be synthesized via both physical and chemical deposition techniques.

Additionally, defects in these materials play an important role in their optical, electrical, and catalytic performance. Here, we aim to make a compilation of such innovative and cutting-edge technological applications and the production and characterization of oxide materials. Therefore, this issue addresses a wide perspective on oxide materials, including but not limited to the advances in the topics listed below: Morphology and size control in the oxide materials;

Advanced characterization and manipulation of defects in the oxide materials;

Oxides for photoelectrochemical and photocatalytic water splitting;

Oxides for energy conversion and storage;
2D metal oxides;

Semiconductor and superconductor oxides;

Oxides for electronic and quantum applications.

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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