



Metal Oxide Films and Their Applications

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Message from the Guest Editor

We would like to invite you to submit your work to this Special Issue entitled "Metal Oxide Films and Their Applications". Metal oxides have very different electrical properties from metals, semiconductors, and insulators, and are used in many different areas (e.g., gas sensors, optical devices). The ability of metal oxides to change their electrical conductivity with the composition of the surrounding atmosphere has been proven by researchers all over the world. This progress has been supported by the industrial development of novel characterization and deposition tools. The aim of this Special Issue is to present the latest experimental and theoretical developments in the field, through a combination of original research papers and review articles from leading groups around the world.

In particular, the topics of interest include, but are not limited to:

- Gas-sensing applications;
- Optical devices;
- Electrochemical applications;
- Theoretical studies of metal oxides;
- The development of deposition techniques.





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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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