



Oxide-Based Electronics: Growth and Applications of Oxide Thin Films and Heterostructures

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Message from the Guest Editor

Oxide-based electronic materials, such as thin films and heterostructures provide a wide range of possible applications and offer broad opportunities for scientists to probe into some of the exciting and intriguing phenomena exhibited by oxide systems and oxide interfaces.

The topics of interest for this Special Issue include, but are not limited to the following:

- Thin-film deposition techniques and technology, e.g., PLD, MOCVD, ion beam sputtering, CVD, e-beam, thermal evaporation, magnetron sputtering, ALD;
- Functional oxide heterostructures
- Oxide superconductivity
- Transparent conducting oxides
- Transition metal oxide films and heterostructures
- Electrical and optical properties of oxide films
- Interface phenomena in oxide heterostructures
- Oxide-based photovoltaics
- Oxide-based photonics





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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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