

Semiconductor Thin Films: Growth, Characterization, Integration and Applications

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Message from the Guest Editor

Dear Colleagues,

This Special Issue invites papers on the use of thin films in various fields of science and technology. Of particular interest are thin-film materials used as key elements of technological progress in the production of electronic, photonic, and optoelectronic devices and their integration into various types of devices, as well as the use of high-efficiency thin-film materials for photovoltaic and thermoelectric converters and biomedical technological applications. Papers on their integration with MEMS devices and other recent electronic technologies and their use in industrial devices are also welcome.

More generally, the topics of interest include but are not limited to:

- Technologies for growing thin films;
- Mechanisms of growth of thin films;
- Wide-bandgap and narrow-bandgap semiconductors thin films;
- Carbon: nanotubes and graphene;
- Topological insulators thin films;
- Thin-film structures for photovoltaic and thermoelectric devices;
- Thin film coatings for biomedicine and bioelectronics devices.



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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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