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Semiconductor Thin Films: Fabrication, Characterization and Applications

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Deadline for manuscript submissions:
closed (31 March 2022)

Message from the Guest Editor

The scope of this Special Issue is semiconductor thin films, focusing on the research in the field of semiconductor materials for various functions and /or applications. In the Architecture Intelligence (AI) and 5G era, the semiconductor devices are trending toward low power, high speed, and intelligence through novel electronics and/or optoelectronics development. The aim of this Special Issue is to present the latest experimental and theoretical developments of the semiconductor thin films for emerging technology for More-Moore or More-than-Moore, through a combination of original research papers and review articles from leading groups around the world. We are pleased to invite you to submit your recent research articles to this Special Issue.

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

- Advanced CMOS, process, and nanopatterning
- Photonics, optoelectronics, energy harvesting, and others
- TFT, wearable, and organic electronics
- Memory technology and reliability physics
- Non-silicon/III-V/2D/power and other materials
- Analog RF/MEMS and others New concepts and new model/computing

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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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