

## Special Issue

# Semiconductor Thin Films and Coatings: Microstructure, Properties, and Applications

### Message from the Guest Editor

A semiconductor thin film is a thin film formed of semiconductor material. Semiconducting thin films are fundamental structures used in microelectronics, nanoelectronics, and biological systems. Single-crystalline, polycrystalline, or amorphous semiconductor thin films are commonly used in devices such as thin-film transistors, sensors, photodetectors, and solar cells. With the development of thin-film preparation technology, the scientific community is gradually valuing various functional semiconductor thin films.

Semiconductor thin films are also widely used in multiple fields. This issue provides a platform for scholars in related fields to discuss the microstructure, performance, and application of semiconductor thin films/coatings. Research areas may include (but are not limited to) the following:

- Single crystal, polycrystal, or amorphous semiconductor thin films.
- Novel semiconductor thin film coating methods.
- Characterization of semiconductor thin films, microstructure, electrical, and optical properties.
- Semiconductor thin film applications, TFT, sensors, or others.

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### Guest Editor

Prof. Dr. Yanli Pei

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### Deadline for manuscript submissions

closed (31 December 2023)



## Coatings

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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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