Special Issue

Optoelectronic Thin Film Materials Devices

Message from the Guest Editor

In recent years, thin-film materials have become a key element in the development of high-performance electronic and optoelectronic devices. Their significant employment is undoubtedly related to their suitability in the development of large areas, high flexibility, lightweight and low-cost devices with high-quality electro-optical features. This Special Issue aims to cover all recent advancements in experimental and theoretical aspects related to inorganic, organic, hybrid-semiconductor, or halide perovskites thin-film materials and their employment in devices dedicated to optical sensing, photonics, radiation detection, energy harvesting and green energy. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Synthesis and characterization of thin-film materials;
- Modeling of thin-film material properties (charge transport, radiation interaction);
- Flexible thin-film devices design and characterization;
- Optoelectronic thin film devices for innovative applications.

We look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (17 November 2023)

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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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