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Advance in Perovskite Thin Films

Guest Editor:

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Deadline for manuscript submissions:
closed (31 July 2021)

Message from the Guest Editor

Dear Colleagues,

In recent years, perovskite compounds, with their interplay of charge, spin, and orbital ordering, are one of the most largely studied class of materials, both for the investigation of their fundamental properties and for the application of their many functionalities in different fields. Developments of the physical vapor deposition techniques used to deposit perovskite thin films have opened the way to the growth of single-layer thin films, heterostructures, and superlattices with structural properties comparable to those of single crystals.

This Special Issue is intended to provide the state-of-the-art and new perspectives for several fields of applications of perovskite thin films:

State-of-the-art and new ideas on the deposition of perovskite thin films;
State-of-the-art and developments on perovskite thin film-based systems for electrical applications;
State-of-the-art and new perspectives on perovskite thin film-based systems for electronic applications;
State-of-the-art and developments on perovskite thin film-based systems for energy conversion applications.

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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.

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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