

Advances in Functional Thin Films: Fabrication, Properties, and Applications

Guest Editor:

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Message from the Guest Editor

The development of thin film science and technology has been widely used in various fields, including energy, optoelectronics, environmental protection, and biomedicine. These applications require very diverse physical, chemical, optoelectronic, mechanical, abrasion, and corrosion resistance properties, which can be achieved by coating functional films on the surface of the substrate. To meet a new application requirement of functional thin film, it is necessary to fully grasp the intrinsic properties of the materials, supplemented by appropriate film fabrication technology. Therefore, the fabrication, properties, and applications of functional thin films are closely related. We sincerely invited researchers in this field to submit relevant manuscripts to this Special Issue of the journal *Coatings*.



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Special Issue

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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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