

## Advances in Thin Films and Coatings

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue is focused on innovative thin films and coatings for the improvement of bioactive surfaces in the biomedical field. The main objective is to highlight the recent progress in bioactive material research translated into new biomedical applications with a great impact on infection control, implantology, tissue engineering, plastic surgery, dentistry, and other relevant topics.

This SI is given to advanced materials used for surface modification.

A thin film or coating is a layer of material that has been deposited on a surface in order to modify, improve, or even add new functionalities to the characteristics of that surface.

In the biomedical domain, thin films and coatings must possess some special properties: crystallinity, adherence, hardness, toughness, corrosion resistance, and biocompatibility.

For this SI, we refer to medical devices considering orthopedic and dental implants, stents, drugs, surgical instruments, etc.



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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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