

Special Issue

Advances in Thin Films and Coatings

Message from the Guest Editors

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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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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