

Special Issue

Advances in Films and Coatings for Biomedical Application

Message from the Guest Editors

The development of materials for biomedicine is one of the most important trends in modern material science. The application of films and coatings here presents an attractive way to modify the surface of biomedical products to improve their characteristics, such as biocompatibility, osseo- and tissue integration, corrosion resistance, electrochemical properties, and others. Moreover, such an approach makes it possible to impart new additional properties to a traditional bulk biomaterial; for example, the antibacterial or antifungal ones. Permanent and biodegradable materials are in demand in the relevant fields of biomedicine. Advances in nanotechnology make it possible to obtain a variety of films and coatings, including metal, oxide, ceramic, glass, polymer, organic layers, and nano-objects (nanoparticles, nanotubes, etc.). Specially designed composite and hybrid materials are of particular interest here. Understanding the mechanisms behind the desired enhanced functional response of surface materials is the key to the development of this substantial field.

Guest Editors

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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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