



Thin Films for Biomedical Application

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Biomaterials are a specific type of usable products which are in need of research to determine their physicochemical and biological properties. The main parameters tested for thin films are their resistance against degradation. From a biological point of view, it is important to consider film biocompatibility, bioactivity, cell attachment, and extracellular matrix production. Additionally, bacteria studies have to be carried out for materials considered for biomedical applications. This scope of this Special Issue includes the following concepts:

- Thin film preparation and characterization for biomedical application;
- Physicochemical properties of biocompatible thin films;
- Biological studies (in vitro and in vivo) of thin films;
- The preparation and characterization of biocompatible coatings on different types of surfaces;
- Microbiological activity studies of thin films dedicated as wound dressings;
- Understanding of thin film components' influence on biological processes;
- Thin film preparation from different raw compounds.





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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.

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