



Recent Advances in Coatings of Implant and Dental Biomaterials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Recently, the development of coatings of the implant and bone surfaces has had great interest. The coating of implants may enhance osseointegration. Moreover, coating the surface of implants may provide antimicrobial effects. Various methods/techniques can be applied for coating implant surfaces. Plasma splaying and electrospraying have been developed as coating methods. Quite a lot of materials have been applied for implant coatings. Growth factors have been used, along with bioactive glasses and ceramics. Similarly, bone surfaces have been coated using various methods to enhance the functionality of the graft material.

This scope of this Special Issue will serve as a forum for papers in the following concepts:

- Theoretical and experimental research, knowledge, and new ideas in coatings of implant and bone surfaces;
- Recent developments in coating techniques;
- Recent developments in materials for surface coating;
- Understanding the mechanisms for enhanced functionality;
- Clinical research regarding the application of coated implant and/or bone.





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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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