



Recent Trends in Coating of Biomaterials

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Message from the Guest Editor

Dear Colleagues,

We would like to invite you to submit your work to this Special Issue on “Recent Trends in Coating of Biomaterials”. Pure light metals (e.g., Mg, Al, Ti, Zr) or their alloys were particularly distinguished for medical and surgical usage due to their properties, such as compatibility with the biological environment, good mechanical behavior, and corrosion resistance. Among the various biomaterials, plasma spraying of hydroxyapatite has been intensively investigated and adopted by companies involved in the production of orthopedic implants.

The topics of this special issue include but are not limited to:

Microstructural and compositional characterization of substrate and coating layers applied on different biomaterials;

Nondestructive methods for coatings characterization;

Development of phosphorus-incorporated oxide layers on alloys for biomedical applications;

Thin-films, membranes, coatings, nanostructures of functional materials;

Advances in coatings and surface characterization;

Biocoating and biomaterial surfaces.



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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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