



Development of Hydroxyapatite Coatings

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Message from the Guest Editor

Dear Colleagues,

This Special Issue aims at gathering information relevant to the field of hydroxyapatite coatings, from their design to their synthesis, characterization, and evaluation and, finally, to potential applications of these coatings in areas other than the medical field. Hydroxyapatite is a ceramic material with amazing capabilities regarding biointegration and bioactivity. The design and production of nanostructured hydroxyapatite coatings offers a large range of functionality and opportunities for composites and structures.

This Special Issue will serve as a forum for papers dealing with the following concepts:

Types of hydroxyapatite coatings and substrates;
Substrate pretreatment and adherence improvement procedures;
Computed modeling of substrate and coating design and performance;
Methods for coating hydroxyapatite;
Investigation and evaluation of hydroxyapatite coatings;
Applications of hydroxyapatite coatings.





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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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