

Ion-Substituted Calcium Phosphates Coatings

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Message from the Guest Editors

Dear Colleagues,

The aim of this Special Issue is to document current advances in the field of ion-substituted hydroxyapatites and highlight possible future perspectives regarding their use. Contributions in the form of original articles and review articles are encouraged, covering different areas of application.

In particular, the topics of interest include, but are not limited to, the following:

- Synthesis or deposition of ion-substituted calcium phosphate coatings.
- Nucleation of calcium phosphate coatings in the presence of substrate contaminations.
- Antibacterial ion-substituted hydroxyapatites.
- Ion-substituted hydroxyapatites for different applications.
- Relevance of specific ion substitutions (e.g., magnesium, strontium, sodium) on the properties and/or the behavior of substituted hydroxyapatites.
- Novel techniques to improve the control over ion-doping of calcium phosphates.
- Advanced characterization techniques to investigate the properties of the coatings (composition, morphology, mechanical properties, solubility, crystallinity, ion release in different media etc...).



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Special Issue

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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that

focuses on the dissemination of applications in the field of surface science and engineering. *Coatings* publishes original research articles (short reports, cutting-edge results and review papers on the hottest topics).

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