



Ion-Substituted Calcium Phosphates Coatings

Guest Editors:

Dr. Gabriela Graziani

Dipartimento di Chimica,
Materiali ed Ingegneria Chimica
"Giulio Natta", Politecnico di
Milano, Via Luigi Mancinelli, 7,
20131 Milan, Italy

Dr. Enrico Sassoni

Department of Civil, Chemical,
Environmental and Materials
Engineering (DICAM) – University
of Bologna, Bologna, Italy

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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...).

Dr. Gabriela Graziani

Dr. Enrico Sassoni

Guest Editors

Special *Issue*



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Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

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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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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