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Silicon-based Bioactive Materials and their Applications

Guest Editor:

Dr. Pietro Mandracci

Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy

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Message from the Guest Editor

This Special Issue is dedicated to the most recent research in the field of silicon-based materials with bioactive properties. Indeed, silicon-based materials are widely known, especially for their application in the fields of microelectronics, photonics and photovoltaic. However, they are also of great interest for their application in the biomedical field, thanks to their capability to interact with biological systems, such as tissues, cells and bacteria. The presence of an interaction between silicon and biological systems has been widely described in the scientific literature. However, the mechanisms of interaction between silicon and biological systems are still not clear.

This Special Issue is intended to cover original research articles, as well as critical reviews, concerning the most recent advances in the study of the interaction between silicon-based materials and biological systems. Both fundamental studies and research aimed at studying advanced applications of these materials are of interest.

Keywords

- biomaterials
- silicon-based surfaces
- silicon-based coatings
- silicon implantation
- nanostructured silicon surfaces











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Editor-in-Chief

Prof. Dr. Giulio Nicola CerulloDipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network

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