Special Issue

Clay-Based Biomaterials: From Synthesis to Applications

Message from the Guest Editors

This Special Issue is focused on current research on clay-based biomaterials from the state-of-the-art to the most recent advancements, with a special focus on the design of *ad hoc* composites and their applications in biomedical, bioremediation and food packaging fields. Applications range from drug carrier and delivery issues to bone therapy, gene delivery, tissue regeneration and so on. Original contributions addressing the synthesis and characterization of clay hybrids and related mechanisms involved in adsorption and release of active molecules, as well as practical clinical or environmental applications, in the form of full papers or communications are all welcome. Mini-reviews presenting an overview of the state-of-the-art with projections on future perspectives and trends in this domain will also be considered.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials* (*JFB*) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama
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