



New Trends in the Development of Bioactive Glasses

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editor

The purpose of this Special Issue is to provide essential readings to researchers interested in new trends in the development of a new system based on bioactive glasses, with particular attention to the various strategies for the development of bioactive melting glasses, sol-gel-derived mesoporous bioactive glasses, and new hybrid glass-based biomaterials that have tunable properties. The published papers will share the common goal of building the bases for the development of future bioactive glasses.

50 years ago, Prof. Larry Hench discovered the first bioactive glasses (45S5 Bioglass), which were able to bond to living bone. 45S5-based glass products have been successfully implanted in millions of patients worldwide. In recent years, many other bioactive glass compositions have been proposed for innovative biomedical applications, such as soft tissue repair, tissue engineering, and drug delivery.

This present Special Issue welcomes contributions in the form of articles, communications, or reviews related to the design, synthesis, experimental and computational characterization, surface modification, and processing of bioactive glasses





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Message from the Editor-in-Chief

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