

Special Issue

Bioactive Glass-Based Materials for Soft and Hard Tissue Regeneration: A New Future for Dental and Biomedical Applications

Message from the Guest Editors

Initially, BAGs were used in medical applications due to their ability to form a bond with bone, stimulating its self-healing potential. With time, the evolution of BAG compositions and manufacturing methods has led to a better control of the mesoporous structure, particle size, and the delivery of therapeutic ions or active molecules. In this respect, the investigation of BAGs has extended to a large number of biomaterials, such as bone cements and implant coatings. In dentistry, BAGs have been investigated as dental cements and added to restorations and even toothpaste. For both clinicians and researchers involved in minimally invasive therapies and tissue preservation, BAG-based materials represent an interesting regenerative strategy. This Special Issue, entitled “Bioactive Glass-Based Materials for Soft and Hard Tissue Regeneration: A New Future for Dental and Biomedical Applications,” is dedicated to advances in the field of bioactive glasses, targeting both dental and biomedical applications. Studies on all types of BAG-based materials are welcome in the form of full papers, communications, and reviews.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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