

Special Issue

Application of Bioceramic in Dentistry

Message from the Guest Editor

Bioceramics interact with biological systems and are specifically designed for biomedical applications owing to their favorable biocompatibility and mechanical properties. In dentistry, bioceramics are used to replace, repair, or enhance biological functions, and the ability to integrate with the surrounding tissues has contributed to improved patient outcomes and enhanced dental care. Bulk, porous materials and scaffolds with specific geometries are frequently used for implantology and in powder form and hydrogels to fill defects, helping the natural bone growth, periodontal tissue attachment, and regeneration. Characterization of bioceramics can include chemical composition, homogeneity, phase distribution, morphology, particle size/shape, grain boundaries, crystallite size, crystallinity, pores, cracks, and surface area. This Special Issue focuses on new materials and technologies that can improve the properties of bioceramics used in all areas of dentistry and that can benefit clinical applications. For this purpose, we encourage the submission of original in vitro or in vivo research, and systematic reviews focused on any of these aspects.

Guest Editor

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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.

Editor-in-Chief

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