Special Issue

Advanced Dental Biomaterials: Technologies and Applications

Message from the Guest Editors

Therapy in the oro-dental and maxillo-facial region is challenging because the oral cavity has several tissues with distinct cell populations (ectodermal and mesodermal), making the procedures more complex. Dental materials must survive the harsh and fluctuating conditions of the mouth. Therefore, new biomaterials have been developed for dental use which have a wider applicability in preventive, restorative, and regenerative treatments.

The aim of this Special Issue" "Trends and Prospects in Advanced Dental Biomaterials" is to provide the latest information on dental biomaterials. Topics in this Special Issue include, but are not limited to: biocompatibility of biomaterials, nanorobots or dentirobots, mechanics characterization of dental biomaterials, regenerative strategies, dental composite materials, bonding adhesives, periodontal tissue engineering strategies, stem cells, pulp capping biomaterials, bone regeneration, cleft palate, surface modification techniques, titanium alloys, and 3D printing. High-quality research articles, clinical studies, review articles, and case reports are all welcome.

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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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