Special Issue

Biocompatibility of Restorative Dental Materials

Message from the Guest Editor

In recent times, preventive and restorative procedures have evolved from surgical preparations to the healing and remineralisation of hard dental tissues. The materials used should be not only biocompatible, but also bioactive, thereby provoking an adequate tissue response, leading to the remineralisation of dental hard tissues (enamel, dentin and cement), defects, and pulp tissues. Preventive materials, such as CPP/ACP, bioactive glass, tricalcium phosphate or xylitol, among others, can promote the remineralisation and healing of hard dental tissues and affect saliva microbiotic flora. Some restorative materials can remineralise caries lesions and heal infected pulp tissue without decreasing their mechanical properties. The aim of this Special Issue is to spotlight the recent advances in the development of biocompatible/bioactive dental materials, their action, and mechanical properties

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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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