

Special Issue

Bioactive Materials in Dentistry

Message from the Guest Editor

The evolution of dental materials and dentistry go hand in hand. Historically, the development of materials has evolved by mainly focusing on the improvement of physical and mechanical properties and enhancing their clinical performance and longevity. In recent times, there has been more emphasis on the development of bioactive materials that elicit a biological response. Bioactivity of the materials and a specific response at the interface between tissues and the material results in the formation of a bond and an apatite-like material by strong chemical interaction. Bioactive materials are produced in different forms and with different compositions. These materials are broadly used in all fields of dental medicine. Bioactive materials are promoted as dentin replacements, mimicking properties of hard dental tissues, and enabling biomineralization in dentin. Furthermore, in contact with pulp tissues or periodontal ligament, bioactive materials stimulate repair processes, and deposition of osseous tissue in injured bone.

Guest Editor

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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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