Special Issue

Advances in Biomaterials for Endodontics and Their Biocompatibility

Message from the Guest Editor

The evolution from the idea of biocompatibility toward an emphasis in bioactivity has been buttressed by the introduction of hydraulic calcium silicate cements (HCSC) that effectively seal pulp and periapical wounds, enhancing tissue healing. Since then, new generations of HCSCs have been introduced in the clinical practice, sealers inspired in their composition have been developed. Contemporary concepts of minimally invasive dentistry and regenerative endodontic procedures are pushing the boundaries of the materials science to improve properties and interaction between biomaterials and stem cells, functionalization of biomaterials and development of scaffolds to support repair and regeneration of soft and hard tissues. Progress in pulp and periapical biology knowledge and advances in endodontic materials are demanding the assessment of an increased amount of novel biomaterials with multiple methodologies to allow a proper insight into their potential clinical use. This Special Issue welcomes original scientific research and reviews on those topics.

Guest Editor

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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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