## **Special Issue**

# Development, Characterization, and Biological Performance of Materials for Bone, Periodontal, and Dental Tissue Regeneration

## Message from the Guest Editor

The purpose of this Special Issue is to gather the most recent and major scientific progresses on materials specifically dedicated to intra-oral tissues regeneration, including alveolar bone, cementum, periodontal ligament, enamel, dentin, and pulp, as well as mucosal and gingival tissues. Whether they are under the form of nanoparticles, membranes, hydrogels or scaffolds, new materials perform better and better thanks to the development of manufacturing processes (e.g., 3D printing), nanotechnologies, and recent advances in stem cells-based strategies for tissue engineering. Moreover, this issue will focus on material development and investigations on materials biomechanical properties, surface topography and chemical composition that have to be meet for dental applications. Last but not least, the materials, as they aim to regenerate tissues, have to demonstrate biological performances in vivo, including clot stabilization, cell invasion or guidance as well as cell proliferation and differentiation to obtain a fully regenerated and functional tissue.

### **Guest Editor**

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## Deadline for manuscript submissions

closed (30 August 2021)



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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/33267

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Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





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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.

#### Editor-in-Chief

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