Special Issue

Dental Biomaterials: Imaging, Testing and Modelling

Message from the Guest Editors

Dental biomaterials are rapidly evolving. Their introduction into clinical practice is relatively recent. Current research on dental biomaterials include clinical studies on human models that evaluate graft–host interactions regarding biomaterials already approved for clinical applications and basic and translational studies regarding new frontiers in bioengineering, like three-dimensional bioprinting. The first group of investigations includes research on alveolar ridge augmentation, bone tissue engineering, orthodontic tooth movement into regenerated bone, root canal treatment with bioactive cements, periodontal ligament replacement, and so forth. The second group of works includes in vitro and in vivo animal studies on newly developed biomaterials consisting of a combination of stem cells in bioactive scaffolds and nanostructured materials. These biomaterials are produced either by three-dimensional bioprinting or by cell seeding after stereolithographic production of the scaffold.

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Deadline for manuscript submissions

closed (31 May 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/47332

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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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