Special Issue

Dental Implant Biomaterials: In Vitro and In Vivo Simulations and Applications

Message from the Guest Editors

In all fields of regenerative medicine, and in particular in dental implantology, the success rate depends on several parameters, including the chemical, physical, mechanical and biological properties of the materials. For the optimization of these characteristics, both in vitro and in vivo simulations represent the gold-standard protocols to characterize the biocompatibility, biomechanics, and bioactivity of new biomaterials. To this end, the Special Issue “Dental Implant Biomaterials: In Vitro and In Vivo Simulations and Applications” aims to collect the latest knowledge on dental implant biomaterials obtained through in vitro and in vivo studies.

- Dental implant materials
- In vitro and in vivo models
- Biological osseointegration process
- Cellular interaction in bone remodeling
- Histological and histomorphometrical aspects
- Biomechanical aspects

Guest Editors

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Message from the Editorial Board

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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