Special Issue

Advances in Biomaterials of Oral and Maxillofacial Surgery and Implant Dentistry

Message from the Guest Editor

Research in oral and maxillofacial surgery and implant dentistry is rapidly developing, creating new generations of biomaterials for guided tissue regeneration and tissue engineering with functional scaffolds and growth factors. Understanding of the bone-implant interface constantly progresses, guiding new evolution in dental osseo-integrated implants design and composition, directed to the development of proactive implants that can help promote desired outcomes. New 3D technologies, from scanners to CAD software and both milling and printing machines, allow researchers to model all these biomaterials in a fully customized shape, taking into consideration the specific architectural and biochemical features of the tissues to be regenerated. This Special Issue will collect original research papers, both in vivo and in vitro, and comprehensive reviews on different aspects related to the recent updates in maxillofacial research, ranging from biocompatibility assessment methods to the synthesis of functional scaffolds employed in regenerative therapies and the characterization of dental implant geometries and materials.

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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