



Advances in Biomaterials of Oral and Maxillofacial Surgery and Implant Dentistry

Guest Editor:

Dr. Domenico Dalessandri

Dental School, Department of
Medical and Surgical Specialties,
Radiological Sciences, and Public
Health, University of Brescia,
25121 Brescia, Italy

Deadline for manuscript
submissions:

closed (20 May 2022)

Message from the Guest Editor

Dear Colleagues,

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 osseointegrated 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.

Dr. Domenico Dalessandri
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)