

Special Issue

Frontiers and Novel Applications in Advanced Autologous Constructs, Scaffolds and Innovative Materials for Dentistry and Oral Health

Message from the Guest Editors

Recent updates in the development, manufacturing, and characterization of innovative materials for oral and cranio-facial reconstructive medicine are producing a new generation of constructs with physicochemical properties, improved wettability, hierarchical porosity, increased mechanical performance, and integration with the host tissues. Moreover, the creation of constructs based on autologous growth factors derivatives and bioactive molecules are able to promote the healing of soft and hard tissues to obtain functional and aesthetic harmony rehabilitation of the jaws and the face. This Special Issue will evaluate novel frontiers in craniofacial research and oral health regarding bone substitutes, autologous tooth, scaffolds, multifunctional materials, innovative bio-complexes and growth factors derivatives constructs, stem cells, surface treatments, and novel protocols for implant-supported rehabilitations and tissular damage repair of the face and the jaws. In particular, in vivo and in vitro original research and breakthroughs for biomedical applications reports, finite elements and mechanical studies, and literature reviews will be considered for the issue.

Guest Editors

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Dr. Gianna Dipalma

Dr. Ioana-Roxana Bordea

Deadline for manuscript submissions

closed (10 July 2022)



Materials

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CiteScore 5.8
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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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