Special Issue

Advanced Materials for Oral Application

Message from the Guest Editors

The continuous development of dental materials enables dentists and dental technicians to choose from a wide variety. Recent advances enable tailoring dental materials to specific applications, resulting in progressive materials. The introduction of new aesthetic materials, digital devices, processing software, and manufacturing and prototyping tools have radically transformed the dental profession. Bioactive dental materials, which release specific ions, play an important role in the regenerative process, in preventive and restorative dentistry, as well as in endodontics, inducing cell differentiation and stimulation, hard tissue formation, and exerting antimicrobial actions. Smart materials are capable to react to pH changes and induce reparative processes in the oral environment. Biocompatibility has to be considered, as dental materials must be well tolerated by the human organism. Bacterial colonization of the surface is also important, considering its etiopathogenetic role in initiating different oral pathologies.

It is our pleasure to invite you to submit your work to this Special Issue. Research papers, reviews, and communications are welcome.

Guest Editors

Prof. Dr. Laura-Cristina Rusu

Department of Oral Pathology, Multidisciplinary Center for Research, Evaluation, Diagnosis and Therapies in Oral Medicine, "Victor Babes" University of Medicine and Pharmacy Timisoara, 300041 Timisoara, Romania

Prof. Dr. Lavinia Cosmina Ardelean

Department of Technology of Materials and Devices in Dental Medicine, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

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

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