Special Issue

3D Printed and CAD-CAM Milled Polymer-Based Materials for Dentistry

Message from the Guest Editors

In last decade, CAD/CAM has progressively become a state-of-the-art technology in dentistry. The introduction of these techniques has been advantageous, particularly in some areas of dentistry such as restorative dentistry, prosthodontics, and orthodontics. The technological evolution of intraoral scanners, milling units and 3D printers has been accompanied by the development of new materials. Concerning CAD/CAM, a large variety of polymer-based materials as well as of hybrid materials has been made available to dentistry, providing a valuable alternative to ceramic materials. Particularly, reinforcing fibers (carbon, glass) and glass matrices have lately attracted the interest of research. In 3D printing, the recent introduction of 3D printable polymers for permanent restorations represents a pivotal step forward that is worthy of investigation. The contents of the Special Issue will specifically, though not exclusively, include:

- Polymer based dental materials for CAD/CAM manufacturing;
- Polymer based dental materials for 3D Printing;
- Digitally processed prosthetic materials for temporary and permanent restorations;
- Digitally processed materials for orthodontics.

Guest Editors

Dr. Alessandro Vichi

Dental Academy, University of Portsmouth, William Beatty Building, Hampshire Terrace, Portsmouth PO1 2QG, UK

Prof. Dr. Cecilia Goracci

Department of Medical Biotechnologies, University of Siena, Siena, Italy

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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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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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