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Research on Dental Resin Composites

Guest Editor:

Dr. Barbara Lapinska
Department of General Dentistry, Faculty of Medicine, Medical University of Lodz, 92-213 Lodz, Poland

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Message from the Guest Editor

The primal aim of restorative dentistry is to maintain the biomechanical and aesthetic integrity of dentition, with preservation of tooth vitality and maximum preservation of tooth structure. Nowadays, the most accessible restorative dental treatments are performed with the use of dental resin composites and their derivatives. Due to their high aesthetics and superior mechanical features, they are the most commonly used dental restorative materials. When introduced into an aggressive oral environment, dental resin composites undergo mechanical and chemical degradation; thus, their adhesion to dental tissues and mechanical, wear, and ageing resistance are of great importance. Other issues inherent to these materials such as polymerization shrinkage, water sorption, or substance release also play a role in their survival in the oral environment. Ongoing development of these dental materials and their fabrication and application techniques allow to expand the range of their clinical indications.

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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

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Contact Us

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

Tel: +41 61 683 77 34
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