Special Issue

Research on Dental Resin Composites

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.

Guest Editor

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Deadline for manuscript submissions

closed (20 February 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/106566

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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.

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