Special Issue

Behaviour of Dental Composite Materials

Message from the Guest Editor

Composite resins are widely used in dentistry, for both direct and indirect restorations and have been constantly improved with every new generation of products. Over the last decade, digital technology (CAD/CAM) has challenged the classical approach and has been rapidly adopted in restorative dentistry, management of temporomandibular disorders, orthodontics, and orthognathic surgery.One further step in this direction is three-dimensional printing, which is beginning to play an increasingly important role in dentistry, especially for interim prosthetic restorations. This technique used for obtaining temporary prosthesis has distinct advantages compared to the conventional ones.Unfortunately, resin-based dental materials are not inert in the oral environment and may release components, initially due to incomplete polymerization, and later due to degradation. Consequently, more precise knowledge of the actual quantity of released eluates is necessary.

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