Special Issue

Dental Composite Resin: Characteristics and Future Perspectives

Message from the Guest Editors

Dental resin composites have undergone significant advancements, focusing on improving aesthetics, strength, and biocompatibility. Future developments aim to enhance color matching, durability, and handling characteristics for easier placement. Efforts in biocompatibility enhancement seek to minimize adverse reactions and better integrate with oral tissues. Improvements in adhesive properties aim to strengthen bonds with tooth structure. Emerging trends include integrating bioactive and antibacterial agents for remineralization and cavity prevention. There is also a shift towards minimally invasive techniques and exploring nanotechnology for enhancing mechanical properties. Additionally, 3D printing holds promise for customizing dental restorations efficiently. The future of resin composites lies in continued research and innovation to optimize their performance and clinical outcomes in restorative dentistry. This Special Issue aims to highlight research in the field of dental materials and their application in dentistry, with a particular focus on restorative dentistry. It is our pleasure to invite you to submit an original research article or a review to Special Issue.

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Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials* (*JFB*) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

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