

Special Issue

Resin-Based Materials in Restorative Dentistry: Innovations, Characterization and Clinical Implications

Message from the Guest Editors

The use of resin materials for restorative dentistry has been rapidly growing in recent years due to their aesthetic and functional benefits. This Special Issue seeks to explore the latest advances in the field, including new synthetic approaches, innovative material formulations, and novel processing techniques that are driving the development of next-generation materials with improved performance and clinical outcomes.

This Special Issue, entitled “Resin-Based Materials in Restorative Dentistry: Innovations, Characterization and Clinical Implications”, aims to provide a comprehensive overview of the current state of the art in the development and use of resin-based materials for restorative dental applications. The scope of the discussion will include but not be limited to the synthesis, characterization, and properties of these materials, as well as their clinical applications and performance. We will also highlight the key opportunities and emerging trends in the field, including the growing focus on bioinspired materials, personalized dental implants, and the use of artificial intelligence and machine learning to optimize material design and selection.

Guest Editors

Dr. Carlos Enrique Cuevas-Suárez

Prof. Dr. Monika Lukomska-Szymanska

Prof. Dr. Louis Hardan

Dr. Mario Felipe Gutiérrez

Dr. Rafael Guerra Lund

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Journal of Functional Biomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jfb@mdpi.com

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[jfb](https://jfb.mdpi.com)





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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

Prof. Dr. Pankaj Vadgama

School of Engineering and Materials Science, Queen Mary University of London, London, UK

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