

Reshaping Dentistry: Coatings and Innovations in Dental Biomaterials

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Message from the Guest Editor

This research topic aims to address issues in modern restorative dentistry related to the longevity of restorations. Despite advancements in biomaterials, enhancing their durability and resistance remains challenging. Therefore, staying abreast of the latest techniques, application strategies, and materials emerging in the dental market is crucial.

This special issue highlights original research and reviews pertaining to recent advancements in dental biomaterials, with a focus on enhancing mechanical, chemical, biological, and esthetic properties. The issue welcomes research in various areas, including but not limited to:

- Adhesion of resin-based materials or indirect restoration to dental and non-dental substrates;
- An efficient digital workflow by means of computer-aided imaging (CAI), and computer-aided design and computer-aided manufacturing (CAD/CAM) technology;
- Antibacterial, bioactive, and crosslinking agents;
- Tooth loss and replacement procedures;
- Core build-up materials for endodontically treated teeth;
- Clinical restorative techniques for anterior and posterior teeth;
- Coatings using dental biomaterials.

We look forward to receiving your contributions.



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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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