

Special Issue

Surface Analyses, Physicochemical and Mechanical Properties of Dental Biomaterials (2nd Edition)

Message from the Guest Editor

It is well recognized that dental biomaterials are in a state of continuous evolution. Fundamental processes, such as biocompatibility, corrosion, and adhesion, depend on the biomaterial's surface properties (chemistry, surface energy, morphology, hardness, roughness, etc.). There are several conventional techniques that can be used to assess these properties, and new tools have been developed so as to probe the surface at the nano-level. Thus, knowledge and control of the surface properties are essential for the long-term success of restorative procedures. This Special Issue seeks papers related to recent developments in the field of the surface analysis of dental biomaterials. Topics of interest include, but are not limited to, ceramics, dental alloys, bioceramics, polymers, composites, 3D printing dental materials, and bio-inks.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2026)



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About the Journal

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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