

## Special Issue

# Advanced Materials for Dentistry and Oral Health

### Message from the Guest Editors

The rapid development of functional biomaterials is transforming the landscape of dentistry and oral health. Advanced materials with antibacterial, bioactive, regenerative, and immunomodulatory properties are being increasingly explored to address major clinical challenges, including caries, periodontal disease, peri-implantitis, and complications associated with orthodontic and restorative treatments.

This Special Issue of the Journal of Functional Biomaterials invites original research and reviews on the design, characterization, and translational application of novel biomaterials for dentistry. We particularly welcome studies focusing on periodontal regeneration, restorative and prosthodontic biomaterials, antimicrobial and immunomodulatory systems, and bioengineered approaches for oral tissue repair. By gathering cutting-edge contributions from multidisciplinary teams, this Special Issue aims to highlight emerging strategies that will drive innovation in dental materials science and improve long-term oral health outcomes.

---

### Guest Editors

Dr. Zong Chen

College of Dental Medicine, Irving Medical Center, Columbia University, 630 W. 168th St, VC12-212, New York, NY 10032, USA

Prof. Dr. Sunita Ho

1. Division of Preclinical Education, Biomaterials & Engineering, Department of Preventive and Restorative Dental Sciences, School of Dentistry, University of California, San Francisco, CA 94143, USA
2. Department of Urology, School of Medicine, University of California, San Francisco, CA 94143, USA

---

### Deadline for manuscript submissions

closed (30 April 2026)



## Journal of Functional Biomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 6.8  
Indexed in PubMed



[mdpi.com/si/257536](https://mdpi.com/si/257536)

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

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

[jfb](https://jfb)





# Journal of Functional Biomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 6.8  
Indexed in PubMed



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

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



## 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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, Ei Compendex, Inspec, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Engineering, Biomedical) / CiteScore - Q2 (Biomedical Engineering)