

## Special Issue

# Advanced Materials and Technologies in Orthodontics

### Message from the Guest Editors

Orthodontics has developed significantly in the last 100 years along with the continuous improvement of materials science. Breakthroughs in materials science help orthodontists to achieve more efficient and healthier tooth movement and develop new orthodontic techniques. Various metallic materials possess different mechanical properties and are widely applied to orthodontics, resin adhesives provide reliable retention for brackets, and organic materials are extensively used in removable appliances and orthodontic retainers. In addition, researchers are paying more and more attention to antibacterial properties and osteogenesis in orthodontic material. Orthodontic extraction treatment is an important technique for patients with crowded dentition, while osteogenesis after tooth extraction may promote tooth movement. Thus, it is important to discuss advanced materials and technologies in orthodontics that are key for further innovations in orthodontic treatment. This Special Issue aims to collect original manuscripts and critical reviews reporting advanced materials and technologies to deepen our understanding of orthodontic materials. I look forward to receiving your contributions.

---

### Guest Editors

Prof. Dr. Bing Han

Department of Orthodontics, Peking University School and Hospital of Stomatology, Beijing, China

Prof. Dr. Jianmin Han

Peking University Hospital of Stomatology, Beijing, China

---

### Deadline for manuscript submissions

closed (20 April 2024)



## Journal of Functional Biomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 6.8  
Indexed in PubMed



[mdpi.com/si/121335](https://mdpi.com/si/121335)

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

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

[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)