

## Special Issue

# Advanced in Graphene-Based Biosensing Device

### Message from the Guest Editors

Graphene, because of its excellent mechanical, electrical, chemical, physical properties, creates great interest to develop and extend its applications for biosensing. In recent years, graphene-based biosensing devices have been presented for detecting numerous biomarkers such as pH, gaseous molecules, metal ions, RNA, proteins, bacterias, virus, living cells, etc., demonstrating great potential in clinical auxiliary diagnosis, environmental pollution monitoring and other biosensing field. These progresses have not only attracted wide attention of academia, but also been highly valued by global industry society, and some of which have gradually realized commercialization.

The aim of this Special Issue is to demonstrate the state-of-the-art progress in graphene-based biosensing devices with particular emphasis on recent advances. Its scope includes—but is not limited to—fundamental studies of novel synthesis/fabrication techniques of graphene-based composites for biosensing, graphene surface functional bioreceptors, graphene-based biosensor structures or detecting methods, and strategies for the graphene-based devices sensing performance optimization with low-cost.

---

### Guest Editors

Dr. Zhuang Hao

Prof. Dr. Tianlong Li

Dr. Feiran Li

---

### Deadline for manuscript submissions

closed (20 October 2023)



## Journal of Functional Biomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 6.8  
Indexed in PubMed



[mdpi.com/si/160384](https://mdpi.com/si/160384)

*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)

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



## 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)