

Special Issue

Functional Nanomaterials and Nanobiosensors: Synthesis, Characterization and Medical Application

Message from the Guest Editor

This Special Issue aims to highlight functional nanomaterials as emerging sensing materials for the development of biosensors toward biomedical application. Topics of interest for this issue include but are not limited to:

- Design, synthesis, and characterization of novel functional nanomaterials with new properties that have promising potentials in biosensing application;
- Design and construction of novel nanobiosensors with enhanced performance based on using functional nanomaterials;
- Emerging application of nanobiosensors in biomedical field, such as in vitro and in vivo diagnostics;
- Demonstration of new physiological and pathological processes using nanobiosensors;
- New mechanisms for synthesis of functional bionanomaterials;
- New sensing principles for nanobiosensors.

Both original research articles and comprehensive reviews will be considered for publication in this Special Issue.

Guest Editor

Dr. Zhuangqiang Gao

Marshall Laboratory of Biomedical Engineering, Research Center for Biosensor and Nanotheranostic, School of Biomedical Engineering, Health Science Center, Shenzhen University, Shenzhen 518060, China

Deadline for manuscript submissions

closed (20 December 2023)



Journal of Functional Biomaterials

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/147958

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

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)