

Special Issue

Advanced Biomaterials and Oral Implantology—3rd Edition

Message from the Guest Editors

This Special Issue, entitled “Advanced Biomaterials and Oral Implantology—3rd Edition”, will introduce studies that reflect progress in nanobiomaterials, polymers, drug release and surface functionalization, as well as cover hot topics within the clinical workflow such as immediate implant placement, immediate restoration and the digital workflow. The main topics of this Special Issue include, but are not limited to, the following:

- Advances in substrate materials, e.g., metal, bioceramics, polymers, and composites;
- Macro-/micro-implant surface modifications;
- Surface functionalization (e.g., drug release, hormones, immobilized antibacterial agents, antimicrobial peptides);
- Degradable and non-degradable alloplastic bone substitute biomaterials (biomaterial scaffolds, oral tissue engineering and bone regeneration);
- Loaded bioscaffolds (and implant regenerative medicine/in bone reconstruction/regeneration);
- Individualized/customized implant fabrication/reconstruction (CAD/CAM) including 3D printing;
- Clinical workflow: immediate implant placement, immediate loading/restoration, digital workflow, and bone management.

Guest Editors

Dr. Dominik Kraus

Department of Prosthodontics, Preclinical Education and Dental Materials Science, University of Bonn, Bonn, Germany

Prof. Dr. Norbert Enkling

1. Department of Prosthodontics, Preclinical Education and Dental Materials Science, University of Bonn, Bonn, Germany

2. Department of Reconstructive Dentistry and Gerodontology, Division of Gerodontology, School of Dental Medicine, University of Bern, Bern, Switzerland

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/230876

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/

[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)