

Special Issue

Corrosion Science in Biodegradable Implants

Message from the Guest Editor

Biomedical materials are necessary to ensure the safety and health of people. Corrosion control is a major issue concerning biodegradable implants, such as magnesium, zinc, and iron and their alloys, to maintain proper mechanical properties and biocompatibility during the service period and then be completely biodegradable. This Special Issue aims to highlight some of the unique aspects in and related to corrosion science in biodegradable implants. The following is an illustrative (but not exhaustive) list of topics of interest to this issue:

- Composition and structure and mechanical, corrosion property and biocompatibility of novel biodegradable materials.
- Surface and interface behaviors of biodegradable materials in different physiological environments.
- Corrosion or degradation mechanisms of biodegradable materials in a physiological environment.
- Effective methods to control corrosion rate.
- Functional coatings on degradable metals.
- Future trends and applications of biodegradable materials in the biomedical field.
- Challenges and opportunities for the development of biodegradable materials.

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2023)



Journal of Functional Biomaterials

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/152083

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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

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