

## Special Issue

# Polymer-Based Coatings in Prosthetics Research

### Message from the Guest Editors

The aim of this Special Issue is to collect recent studies that could make an important contribution to progress in polymer-based coatings for implantable medical prostheses. The scope includes both theoretical and experimental research, from studies looking to improve the surface properties of medical implants to novel manufacturing technologies, characterization methods, and applications. Potential topics for original research articles and critical reviews include the following:

- Drug-releasing hydrogels;
- Coatings to mitigate foreign body reaction;
- Antibacterial hydrogel coatings;
- Antithrombogenic coatings;
- Approaches to improve the resistance to insertion forces;
- Conductive polymer hydrogels for neural prosthetic devices;
- 3D printing of hydrogels for use in prosthetic devices;
- Smart hydrogels for use in prosthesis research;
- Computational-based design of hydrogels.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 September 2023)



## Prosthesis

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## About the Journal

### Message from the Editor-in-Chief

The field of rehabilitation medicine is constantly expanding, all accompanied by the presence of new biomaterials and new concepts of biomechanics. This journal aims to promote the knowledge of new biomedical engineering devices in the prosthetic field. The knowledge and study of new prosthetic devices to rehabilitate parts of the human body certainly promotes research and clinic, improving the expectations of rehabilitated patients and certainly the quality of their life. The scientific society publishing high quality works will contribute to this.

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### Editor-in-Chief

Prof. Dr. Marco Cicciu

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