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Polymer-Based Coatings in Prosthetics Research

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Deadline for manuscript submissions: closed (30 September 2023)

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.



