



Polymer Surface and Interfacial Control for Biomedical Applications

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Deadline for manuscript
submissions:

closed (10 October 2022)

Message from the Guest Editors

Blood coagulation or protein adsorption often limits the general use of polymers as biomaterial. Although it is difficult to fully maintain antithrombotic or antifouling properties, bio-inert surfaces have been developed that can reduce blood coagulation or protein adsorption to some extent.

For decades, biomaterial research has been reported in the development of functional medical matters such as hemostatic sutures, implants, drug carriers, and engineered artificial tissues as medical treatments. Early research focused on bio-inert polymers to avoid inflammation, blood coagulation and protein adsorption with living tissue; however, subsequent studies are being conducted to actively create an environment similar to a living body by binding a biological component to a polymer surface.

This Special Issue will focus on the surface and interfacial chemistry of functional polymers for biomedical applications. Through this, it aims to provide information on convergence science, including polymers, to materials scientists, as well as front-line medical and dental researchers majoring in clinical medicine.





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Message from the Editor-in-Chief

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