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Biocompatible Polymers and Composite Materials for Biomedical Applications

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Message from the Guest Editors

Dear Colleagues,

The application of polymers and polymer-based composite materials is essential and indispensable in modern biomedicine. This Special Issue is, for example, of interest with regard to the surface modification of additive manufactured novel or enhanced biocompatible polymer structures, and for polymer structures utilized in medical devices. Improvements can manifest as higher efficiency filters or superior cell cultivation with enhanced antibacterial properties and simultaneous non-cytotoxicity in the case of implants. Moreover, we are searching for articles addressing creative polymer-based drug delivery systems with innovative drug encapsulation or incorporation systems with the potential for long-term drug release or smart drug release approaches. This Special Issue also aims to present the current state of the art in the new research field of "smart" implants.

Keywords: biomedical applications; biocompatibility; additive manufacturing; drug delivery; coatings; polymer structures; biopolymers; hydrogels; surface modification; polymer composites



Specialsue









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Message from the Editor-in-Chief

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