Special Issue

Functional Biopolymers for Tissue Engineering

Message from the Guest Editors

We are pleased to invite you to contribute to a Special Issue on “Functional Biopolymers for Tissue Engineering.” Functional biopolymers are central to the development of next-generation scaffolds, bioinks, and implantable devices that aim to restore, replace, or augment damaged tissues. Recent advances in polymer chemistry, additive manufacturing, bioreactor design, and computational modelling (including machine learning) are accelerating the translation of engineered tissues toward clinical applications. This Special Issue seeks high-quality articles that address fundamental science, enabling technologies, characterisation methods, and translational strategies involving functional biopolymers. This Special Issue aims to provide a focused collection of original research, reviews, and technical contributions that advance the design, fabrication, characterisation, and clinical translation of functional biopolymers for tissue engineering. Topics span from biomaterial synthesis and microarchitecture to biomanufacturing scale-up, mechanobiology, immunomodulation, and AI-enabled design/characterisation.

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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