Special Issue

Polymeric Materials in Tissue Engineering

Message from the Guest Editor

Tissue engineering is a cutting-edge multidisciplinary field that seeks to restore, maintain, or improve damaged biological tissues and organs. In this context, polymeric materials have emerged as crucial components, serving as cellular scaffolds that mimic the natural extracellular matrix and provide the mechanical and biological support necessary for tissue regeneration. This Special Issue aims to highlight advances in the development of polymeric materials for tissue engineering applications. We invite submissions addressing the synthesis, characterization, and functionality of novel polymers, biomaterials, and innovative nanocomposites. The focus ranges from the preparation of bioactive and biodegradable scaffolds using cutting-edge processing techniques such as electrospinning, 3D printing, and other novel methods, to the study of material–cell interactions. We also seek to include the incorporation of biologically active compounds and the evaluation of mechanical and biological responses in vitro and in vivo. This Special Issue seeks to contribute to progress in the application of polymers in soft and hard tissue regeneration.

Guest Editor

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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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