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Current Trends in Polymeric Hydrogels for Tissue Engineering

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Deadline for manuscript submissions:
closed (25 January 2023)

Message from the Guest Editors

Dear Colleagues,

Soft tissue regeneration that successfully rebuilds the complexity and function of healthy tissue is a significant challenge that has drawn the attention of researchers and clinicians worldwide. One current research focus is the generation of hydrogel-based biomaterials that interface with biological systems, tailored to trigger specific cell responses. Such hydrogels increasingly include instructive components, e.g., ligands designed to control specific cell–material interactions, immunomodulation, or properties to influence cell protein synthesis, as well as three-dimensional arrangements of multiphasic materials, with a key focus on stimuli-responsive materials.

This Special Issue aims to showcase recent studies that represent current trends in the field of hydrogels for tissue engineering, ranging from advances in chemical modifications to embed functionality, to the rise of modern fabrication techniques which serve to produce complex and ordered hydrogel structures that emulate the native cell environment. We welcome submission of communications, full papers, and reviews.

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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.

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