Special Issue

Smart and Functionalized Developments of Polymer-Based Hydrogels

Message from the Guest Editors

Polymer-based hydrogels have garnered immense attention due to their remarkable properties and multifaceted applications. This Special Issue aims to gather cutting-edge research contributions that shed light on the design, synthesis, and utilization of smart and functionalized hydrogels. We hope to deepen our understanding of these materials and their potential for transforming various industries by bringing together leading researchers and their insights. We will provide a comprehensive platform for researchers, academicians, and industry experts to share their knowledge, insights, and discoveries in areas such as novel synthesis and design of smart polymer-based hydrogels; stimuli-responsive hydrogel systems and their applications; functionalization of hydrogels for biomedical and drug delivery purposes; hydrogels for tissue engineering and regenerative medicine; advanced characterization techniques for polymer-based hydrogels; modeling and simulation of hydrogel behavior; prospects and challenges in the field of polymer-based hydrogels.

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Deadline for manuscript submissions

closed (29 February 2024)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/181897

Polymers
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mdpi.com/journal/polymers

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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 4.7.

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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