

Special Issue

Hydrogel-Based Polymers for Biomedical Applications

Message from the Guest Editors

Hydrogel-based polymers are versatile materials in biomedicine, providing biocompatible and tailor-made solutions for tissue engineering, regenerative medicine, drug delivery, and diagnostics. Advances in polymer chemistry, biotechnology, and nanotechnology continue to expand their applications, making them indispensable in modern medicine. Notably, new-generation hydrogels mark a paradigm shift in precision medicine, combining real-time diagnostics with on-demand therapy. Future advances will concentrate on personalized implants and closed-loop electronics. This Special Issue aims to gather contributions from experts covering topics from fundamental developments in hydrogels to practical applications across various fields. We invite authors to submit original research articles and review papers that highlight recent progress on hydrogel-based polymers, demonstrating their potential.

Guest Editors

Prof. Dr. Ridvan Say

Prof. Dr. Arzu Ersöz

Dr. Sibel Buyuktiryaki

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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