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Hydrogel Materials for Drug Delivery and Tissue Engineering

Guest Editors:

Dr. Aneta Ostróżka-Cieślik
Department of Pharmaceutical Technology, Faculty of Pharmaceutical Sciences in Sosnowiec, Medical University of Silesia, Kasztanowa 3, 41-200 Sosnowiec, Poland

Prof. Dr. Sławomir Wilczyński
Department of Basic Biomedical Science, Faculty of Pharmaceutical Sciences in Sosnowiec, Medical University of Silesia, Kasztanowa 3, 41-200 Sosnowiec, Poland

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25 July 2024

Message from the Guest Editors

Dear Colleagues,

Research into hydrogels and the possibility of using them for pharmaceutical and biomedical applications is one of science's most intensively developing areas. Modern hydrogel materials are structured to resemble the natural environment of cells and tissues and they are thus used in the design of effective drug carriers, surgical fillers, and cell culture media. This Special Issue will be devoted to the analysis of the physicochemical, biopharmaceutical, and mechanical properties of hydrogels with potential applications in drug delivery, tissue engineering, and regenerative medicine. Current research directions in the areas of pharmaceutical technology, polymer materials engineering, and biomedical engineering will be discussed. Our aim is to collect original papers, review papers on the development of hydrogels and hydrogel systems that can carry an active substance or can replace damaged tissues or organs. Basic, pre-clinical, and clinical research on the development of new or the development of existing hydrogel-based drugs and therapies is welcome.

Dr. Aneta Ostróżka-Cieślik
Prof. Dr. Sławomir Wilczyński
Guest Editors

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Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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 5.0.

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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Contact Us

Polymers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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