

Special Issue

Biomedical Applications of Polymer-Based Nanomaterials

Message from the Guest Editors

Antimicrobial resistance occurs when bacteria, viruses, fungi, and parasites evolve over time and become less drug-responsive, making infections more difficult to treat and raising the risk of sickness, severe illness, and death. Antibiotics and other antimicrobial drugs are rendered ineffective by drug resistance, and infections are becoming increasingly difficult or impossible to treat. Therefore, it is necessary to design and develop new compounds that overcome these limitations. Nanotechnology is assumed to be the subsequent industrial revolution and considered to have tremendous effectiveness on the community, economics, and the common world. Recently, nanomaterials based on polymers have received much attention in the medical field. Their application in nanomedicine can improve bioavailability, pharmacokinetics, and, therefore, the effectiveness of various therapeutics agents. Thus, nanomaterials based on polymers can be used for various biomedical applications. The focus of this Special Issue will be on the synthesis, characterization, antimicrobial, anticancer, antiviral, and antioxidant activities of polymer-based nanomaterials.

Guest Editors

Dr. Amr H. Hashem
Dr. Mohamed S. Hasanin
Dr. Salem S. Salem

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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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 14476 Potsdam-Golm, Germany

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