

Special Issue

Biomedical Polymer Materials

Message from the Guest Editors

Polymeric bio-materials have been widely used in the medical field thanks to their special mechanical, physical, chemical, and biological characteristics. They must be able to interact with vital areas of the human body without creating inflammatory or rejection reactions. Thus, there is a growing interest in finding new biocompatible polymers, biodegradable or not. Given the rapid development and use of biomaterials, it is becoming increasingly important to understand the relationships among the structure, processing, and properties of biomedical polymers so to widen their medical applications and to improve the characteristics of the materials already used. This Special Issue focuses on polymers used in the biomedical field. Topics of interest concern polymers (biodegradable or not) used for this purpose and related aspects, such as replacement materials for heart valves and arteries, ultra-high-molecular-weight polyethylene (UHMWPE) in joint replacement, scaffolds for tissue engineering, drug delivery systems, suture threads, etc.

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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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