Special Issue

Advanced Polymeric Scaffolds Applied in the Biomedical Field

Message from the Guest Editors

Every day, hundreds of people around the world suffer trauma or bone diseases that in many cases can only be treated through partial repairs or complete replacement of the affected organ or tissue. Scaffolds mimic the characteristics of the extracellular matrix and allow incorporation into the host body. Bone regeneration requires scaffolds that are porous and mechanically stable to promote tissue integration and angiogenesis, which is essential for tissue regeneration. Scaffolds can be biodegradable, which are completely replaced by new tissue; biocompatible, some of which do not degrade; or bioinert. The biomechanical properties of a scaffold must be compatible with the native tissue, so it is necessary to achieve an optimal balance between shape, quantity, pore size and mechanical strength for the proper formation of new bone tissue. Scaffolds are available in practically all types of materials, among which polymeric materials are notable for their versatility. In this Special Issue of *Polymers*, we wish to explore the advances made in polymeric scaffolds for biomedical applications, which will undoubtedly move us closer to having a market-ready product.

Guest Editors

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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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