Special Issue

Polymeric Biomaterials of Natural and Synthetic Origin

Message from the Guest Editor

Polymeric biomaterials are the synthetic or natural materials intended for interfacing with biological systems to regenerate, augment/repair, and treat any type of tissue of the organs or function of the human body. The design of polymeric biomaterials, complemented by an increased understanding of native tissue architecture and cell-material interactions, has evolved across length scales ranging from the molecular to the macroscopic. Polymers are used as biomaterials and can be either of natural origin (chitosan, gelatin, alginate, and hyaluronic acid) and those of synthetic origin (methacrylates/acrylates, as well as lactide/glycolide). By combining these polymers, biomaterials can be tuned with the desired properties that are important for biomedical applications-controlled drug release systems, scaffolding biomaterials for tissue regeneration and reparation, wound dressings polymers, as well as antimicrobial polymers.

Guest Editor

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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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