

Special Issue

The Role of Microstructural Design in Polymer Properties

Message from the Guest Editor

The use of polymers has now reached a certain maturity and most application areas can source at least one type of polymer to meet their specifications. Within a context of increasing resource constraints and the need to recycle used products, obtaining these supplies is becoming more difficult, and thus, it is imperative to optimize the properties of current polymers and to obtain sufficient properties for new types of polymers. In this Special Issue, we address the problems of the optimization and control of microstructures in order to obtain target properties. The design of these microstructures can be realized at several scales. Many approaches are possible to bring about progress in this field for the treatment of multiscale or multiphysics problems. Experimental approaches and in situ experiments demonstrating how microstructures achieve the expected targets in terms of properties of use will be appreciated. The aim is to optimize and control the microstructures in order to obtain various properties. By focusing on studies ranging from the process to the properties will allow us to clearly validate the contribution of the obtained microstructures' properties.

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 4.9.

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

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