

Special Issue

Advances in Shape Memory Polymeric Materials

Message from the Guest Editor

The use of shape memory polymers, a group of stimuli-responsive smart materials, gained increasing popularity and a strong interest in the scientific community for their versatile applicability and motivated the continuous study of these materials in the past decade. The currently used shape memory polymeric materials have relatively high strength, large recovery force and good thermal and electrical conductivity obtained by incorporating filler reinforcements. Despite the progress made in the development of shape memory polymeric materials, necessary reinforcement inevitably reduces the deformation capability of the polymer matrix, which is also a key property for their practical application. To look to the future, one strategy is to learn from mechanisms and operational principles from natural morphing materials to inspire the development of novel synthetic active polymers with shape memory and self-healing properties.

Guest Editor

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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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