Special Issue

Self-Healing Polymers, Proteins and Composites

Message from the Guest Editor

Self-healing is the remarkable ability of living organisms to repair their own damage by themselves. Inspired from nature, the great challenge now is to create and develop polymers and composites with high potential for self-healing, offering alternatives to the current options and moving toward materials with extended service lifetime for various applications. Most of these are innovative (bio)materials with excellent healing performance, such as ionomers, semiconductors, self-assembling systems, hydrogels, micro- and nanoparticles, coatings, films and membranes, particles and capsules, vascular networks, shape memory or stimuli-induced self-healing materials, etc. They are able to spontaneously repair themselves after damage or degradation, recovering structural integrity and functionality by increasing the rate of healing *versus* the rate of damage. For this Special Issue, we are looking for articles that illustrate the latest developments in polymers and polymer composites providing a healing response.

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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