



Self-Healing Polymers, Proteins and Composites

Guest Editor:

Dr. Maria Bercea

“Petru Poni” Institute of
Macromolecular Chemistry of
Romanian Academy, 41 A,
Grigore Ghica Voda Alley, 700487
Iasi, Romania

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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.





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Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

Message from the Editor-in-Chief

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Polymers Editorial Office
MDPI, St. Alban-Anlage 66
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