



Self-Healing Polymers, Proteins and Composites

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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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Message from the Editor-in-Chief

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