Special Issue

Polymeric-Based Materials for Stimuli-Responsive Applications

Message from the Guest Editors

Stimulus-responsive polymers, often known as "smart polymers," are macromolecules sensitive to environmental stimuli such as temperature, light, electrical or magnetic fields, and chemicals. The activated polymers undergo visible or measurable micro- or nanoscale changes, such as morphology, molecular bond rearrangement/cleavage, and molecular motion, which can result in changes in macroscopic attributes including colour, shape, and functionality. Stimuli-responsive polymers can be tailored to have a variety of specific mechanical, chemical, electrical, optical, biological, or other properties, and can be engineered into a variety of forms, including bulk, thin film, micro/nanoparticles, and composites, thanks to the versatile selection of backbone and functional groups. A large array of diverse efforts has been carried out and documented over the years to improve the performance of stimuli-responsive polymers and to investigate new and creative applications. The aim of this Special Issue is to bring together the latest studies on stimuli-responsive polymer-based materials designed for optoelectronics, transducers, capacitors, sensors, etc.

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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

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