



## Polymeric-Based Materials for Stimuli-Responsive Applications

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submissions:

**closed (25 November 2023)**

### 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

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