



## The Frontier of Self-Assembled Polymers and Dendronized Polymers-Based Smart Materials

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### Message from the Guest Editors

The self-assembling process of polymers based on reversible interactions, i.e., both supramolecular and reversible covalent bonds, leads to the formation of stimuli-responsive materials. The character of interactions strictly determines the properties of generated materials and their destined application. The construction of materials based on reversible linkages gives us a useful tool to govern the properties of the materials, thus finding a wide variety of applications for them in the area of biosensors, drug delivery systems, etc.

This Special Issue is devoted to the most recent research focused on the routes of stimuli-responsive materials formation for biomedical and biosensing applications based on self-assembled polymers of different topology, i.e., linear, block, dendronized, and hyperbranched. All the structural aspects of stimuli-responsive polymer-based materials, the determination of the relationship between the structural characteristics of applied macromolecules and the properties of obtained material, as well as recent advances in the synthetic routes of materials based on self-assembled polymers are of interest.





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