

## Special Issue

# Smart Polymers for Biomedical Applications

### Message from the Guest Editor

There has been a renewal of interest in controlling the “nano” structures/functions of biomolecules, and a considerable number of studies have been conducted on designing novel materials to meet these applications. Some special types of polymers have emerged as a very useful class of polymers and have their own special chemical properties and applications. These polymers are called “smart” polymers and have been studied for many years. The characteristic feature that makes them smart is their ability to respond to very slight changes in the surrounding environment, such as temperature, pH, light, or certain chemicals. The uniqueness of these materials lies, not only in the fast macroscopic changes occurring in their structure, but also in these transitions being reversible. The responses are manifested as changes in one or more of the following: Shape, surface characteristics, solubility, formation of an intricate molecular assembly, sol-to-gel transition, and others. This Special Issue focuses on how to design smart polymers and how to apply them to biomedical fields.

### Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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