



## Status and Progress of Soluble Polymers

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### Message from the Guest Editors

Polymers play an important role in various applied areas, including mining processing, the food industry, and paper. Its great importance lies mainly in its linear structure, and the ability to modify this structure under different operational conditions. Such characteristics allow polymers to be added at low doses and thus significantly change the properties of complex systems. This is due to their interaction with the medium or, in other words, their solubility. Therefore, it is necessary to study the chemical and electronic nature of polymers. First, the functional groups that constitute it can generate flexibility or rigidity of the main chain. If these functional groups also have an explicit electrical charge, they can respond to pH or salt. Knowing the structure and its behavior in the environment allows us to predict its effects at the macroscopic level and understand the phenomena that occur in real processes (at an industrial scale).

This Special Issue aims to contribute to the understanding of polymers on a molecular scale and the design and optimization of polymers dedicated to an application.





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