



High-Functional Polymeric Materials

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Message from the Guest Editor

High-functional polymers are a group of polymer materials that can be used for a variety of applications by maintaining their original properties under normal conditions as well as when exposed to harsh environments such as high temperature, high pressure, and corrosive chemicals.

For a long time, there has been a need for the development of polymer materials with special properties that require high functionality as well as higher demand for polymer materials in certain fields, such as electrical and electronic, automotive and transportation, architecture and construction, and sports. To meet their needs, many polymers with high functionality are newly researched and developed. High-functional polymeric materials must exhibit mechanical, electronic or chemical performance in harsher and tougher conditions than normal. Therefore, there is a need to develop a knowledge base connecting the performance and structure of polymer materials. This will be useful in many fields to be used in the future and will be the basic knowledge of many studies academically.

This Special Issue will introduce not only the fields of polymer materials that have recently become a hot issue, but also applications through basic research, processing, post-treatment, and fields across polymers. This Special Issue will introduce a wide range of high-functional polymeric materials such as high-performance polymers, high-temperature polymers, engineering materials for flexible displays, super-engineering polymers, high gas barrier films, and liquid crystalline polymers. It will also include organic–inorganic nanocomposites.





Editor-in-Chief

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Message from the Editor-in-Chief

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