



## Application of Polymer Materials in the Food Packaging

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### Message from the Guest Editors

Food packaging plays a crucial role in the food industry, and in fact, is very complex in nature - the packaging materials should preserve the quality of the packaged food by providing the needed micro-environment and protect it from physical damage, (UV) light and other impurities, oxygen, and water vapor transpiration.

In addition to meeting the strict food regulations, the new packaging materials should also respond to the increased food production demands and satisfy the increased consumers' requirements mainly directed towards packaging' sustainability and its impact on the environment.

A number of scientific studies in the recent decades have shown that modified traditional polymers are promising materials for a variety of food categories; they can be made as recyclable, biodegradable, bio-based, and/or reusable, and thus, respond to the novel sustainability trends. In addition, some of them have been proven as cost-effective and high-performance sustainable alternatives to the traditional polymers.





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