



Advances on Bio-Based Materials for Food Packaging Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Currently, the packaging industry relies heavily on the use of non-biodegradable, petroleum-derived polymer materials, which raises some concerns from environmental perspectives. Furthermore, because of their lack of biodegradability, non-biodegradable, petroleum-based membranes can pose significant waste disposal problems. So, the development of high-performance bio-based materials is an important factor in the sustainable growth of the packaging industry.

The purpose of this Special issue is to present valuable findings regarding bio-based polymers for packaging, the evaluation of sustainability, and end-of-life options. The abovementioned bio-based materials include polylactic acid, polyethylene furanoate, polybutylene succinate, and non-synthetically produced polymers such as polyhydroxyalkanoate, cellulose, starch, proteins, lipids, and waxes. Emphasis will be placed on biocomposites, multilayers, and additives used to adjust properties or as a barrier to gas and moisture.

Both original research articles and review papers are welcome.

Dr. Fabrice Gouanvé
Guest Editor





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Message from the Editor-in-Chief

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