

Special Issue

Advances on Bio-Based Materials for Food Packaging Applications

Message from the Guest Editor

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.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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