

Special Issue

Renewable and Recyclable Polymeric Materials for Food Packaging

Message from the Guest Editor

Synthetic plastics are one of the most commonly used materials in food packaging. However, the drawback is that plastics can take 100 or more years to degrade because they are derived from petroleum materials. Therefore, they have negative environmental impacts and contribute to environmental pollution. The main problem with synthetic plastic packaging is the non-biodegradability and disposal process. Renewable and recyclable polymeric materials are the best option as an alternative to solve the problem of synthetic plastic waste. Although in recent years the development of biodegradable packaging has been the main focus of researchers, consumers demand that food packaging materials simultaneously extend the food's shelf life while being biodegradable, recyclable, and sustainable. Bioactive packaging can be described as biodegradable packaging that carries multidisciplinary additives with antioxidants, anti-browning, nutrients, colorants, and antimicrobial functions to improve food products' quality, safety, and shelf life and reduce the risk of microbial growth. Dr. Jafarzadeh Shima

Guest Editor

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Deadline for manuscript submissions

closed (20 November 2023)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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