



Biodegradable Films and Coatings as Emerging Trends in Food Packaging Processes

Guest Editor:

Dr. Persephoni Giannouli

Department of Biochemistry and Biotechnology, School of Health Science, University of Thessaly, 41500 Larissa, Greece

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Message from the Guest Editor

Food packaging is a critical factor in maintaining food quality and safety during storage, transportation and sale. Traditional packaging materials are widely designed to protect food from mechanical damage, harmful radiation and gases that promote undesirable reactions, as well as to prevent contamination by pathogenic microorganisms and toxic chemicals. For these reasons, millions of tons of plastic are produced annually worldwide, but they are non-degradable and cannot be recycled. Thus, there is huge potential and strong research interest in developing and manufacturing packaging materials from biodegradable ingredients.

Topics include, but are not limited to:

- Novel technologies in the production and application of biodegradable food packaging materials;
- Biopolymers-based packaging as films and coatings in food preservation and safety;
- The fortification of biodegradable films and coatings with, e.g., antioxidants and their effectiveness as food packaging materials;
- The effects of food waste derived bioactive compounds on intelligent biodegradable packaging materials;
- Nanomaterials as biodegradable food packaging.





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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

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Processes Editorial Office
MDPI, Grosspeteranlage 5
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