Special Issue

Bionanocomposite Packaging: Towards the Improvement of Food Safety

Message from the Guest Editors

Reducing food loss and ensuring food safety for consumption, free from chemical and microbial contamination, is an emerging societal challenge for policymakers and companies. Food packaging has a crucial role in this matter and polymer nanocomposites, especially biopolymers incorporating organic or inorganic nanofillers, have attracted great attention due to their promising potential to improve packaging properties. This Special Issue aims to cover a broad range of subjects, from biomaterials engineering and nanomaterials synthesis to the design and characterization of biodegradable packaging and technologies with nanomaterial integration. Potential topics include, but are not limited to:

- Eco-efficiency low impact processes and materials
- Novel processing technologies and fabrication methods
- Surface modification
- Innovative nano-hybrid active fillers
- Structure–property relationships in biopolymer nanocomposites
- Novel packaging functionalities (sterilization)
- Nanomaterials-based biosensors
- Toxicological risks and shelf life studies
- Up-Scaling challenges

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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