

Special Issue

Nanocellulose-Based Materials for Active Food Packaging

Message from the Guest Editors

The need to reduce food spoilage, waste and recalls, as well as foodborne illness outbreaks, has spotlighted the active packaging technology as a way to enhance the safety, quality and shelf-life of the packaged foods. The use of the nanometric forms of cellulose, *i.e.* bacterial cellulose, cellulose nanocrystals and cellulose nanofibers, in numerous food-packaging applications is an active field of research. In fact, the synergetic partnership between nanocellulose (with an eco-friendly connotation and singular properties) and active additives can originate multifunctional nanomaterials as packaging tools with customizable properties. This Special issue will gather the current and future advancements in the field of nanocellulose-based materials for active food packaging with focus on nanomaterials with antimicrobial and antioxidant agents, oxygen and ethylene scavengers, and carbon dioxide emitters to improve the shelf-life, safety and quality of food.

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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