Special Issue

Food Packaging Based on Nanomaterials

Message from the Guest Editors

The use of nanotechnologies in the food packaging area opens up a number of possibilities derived from the inherent characteristics of nanoadditives, which can either improve relevant properties of neat polymers (such as barrier or mechanical properties) or introduce new functionalities (for active and bioactive packaging applications or even for sensing). This is an exciting and rapidly-growing field of study and very interesting developments are being conducted. This Special Issue is intended to compile a number of original papers and reviews covering (but not restricted to) the following topics: (i) novel nanocomposites for improved packaging properties; (ii) use of nanoparticles for active/bioactive/sensing applications; (iii) migration/toxicological studies involving polymer/biopolymer nanocomposites. We look forward to receive your valuable contributions to our Special Issue for advancing the knowledge in this exciting field.
Keywords: nanocomposites; antimicrobial packaging; nanocellulose; migration; active surfaces; barrier biocomposites; nanofillers; bioactive packaging

Guest Editors

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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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