



Chitosan and Other Edible Coatings with Antimicrobial Activity: Synthesis, Properties and Horticultural Applications

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Message from the Guest Editors

Dear Colleagues,

Antimicrobial edible coatings for entire or fresh-cut fruits and vegetables based on natural biopolymers (i.e., proteins and polysaccharides) that serve as carriers of antimicrobial agents or even are inherently antimicrobial, such as chitosan, are increasingly gaining interest for researchers and industry due to their high potential to provide important produce quality and safety benefits.

This Special Issue aims to cover original research and critical review articles on recent aspects of novel antimicrobial edible coatings formulated with chitosan and other edible coating-forming materials containing salts, natural compounds or antagonistic microorganisms to preserve fresh and minimally processed fruits and vegetables, as well as on the mode of action against postharvest pathogens and their properties to preserve the physicochemical and sensory characteristics of the coated product.

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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