Special Issue

Recent Advances in Intelligent and Active Biobased Packaging Materials

Message from the Guest Editor

Food packaging performs three basic functions: containment, the preservation of quality, and protection from various environmental, physical, and microbiological factors. In active packaging, deliberately added materials, in the form of absorbers or emitters, interact with the inner environment of the package to enhance the shelf life of the food. On the other hand, in intelligent packaging, deliberately added materials interact with the packaging environment and monitor the state (i.e., the storage time, temperature, shelf life, etc.) of the packaged food products. Biopolymers, as naturally derived materials, including protein, lipids, and polysaccharides, are commonly used as the base materials for biodegradable packaging. Nevertheless, natural plant-based ingredients are evaluated in terms of acting as an active or intelligent agent in innovative food packaging systems. This Special Issue aims to highlight the most recent advances related to bio-based smart packaging materials and their applications in food products.

Guest Editor

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