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Application of Nanotechnology in Packaging of Foods : A Review

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Abstract : Nano packaging has received considerable attention in recent years because of their advantages such as used to increase shelf life and to protect the packed material. By functioning as barriers, such edible films and coatings can feasibly reduce the complexity and thus improve the recyclability of packaging materials, compared to the more traditional non-environmental friendly packaging materials, and may be able to substitute such synthetic polymer films. New materials are developed and characterized by scientist and several from natural resources that have historically been considered as waste materials. The objective of this review is to provide a comprehensive introduction to nano packaging in foods, nano materials, various techniques used in nano packaging such as chemical release nano packaging, nano sensors and track packaging, nano antimicrobial packaging, nano biodegradable packaging and their applications and potential uses in foods.

Keywords : Chemical release nano packaging, Nano sensors and track packaging, Nano antimicrobial packaging, Nano biodegradable packaging.

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