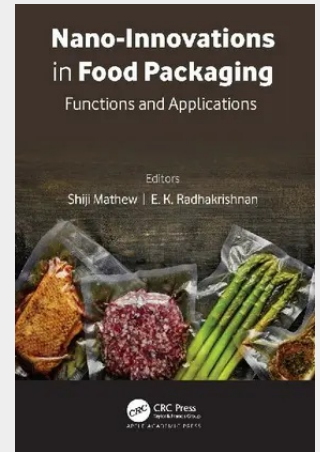


Nano-Innovations in Food Packaging

Functions and Applications

Here is an informative overview of the latest trends of nanotechnology-based packaging in the food industry, a rapidly advancing area with potential for the development of polymer nanocomposites for stronger, lighter, cheaper, more functional, and safer food packaging materials. The volume discusses the advances, functions, and applications of nanotechnology in food packaging as well as the important properties of polymer nanocomposites as packaging materials. Chapters address the major preparative methods and the varied quantitative and qualitative analytical techniques used. Other topics include nanofillers used for the design of active antimicrobial and antioxidant packaging systems, smart/intelligent nanocomposite packaging (including sensors, indicators, bar codes, and radiofrequency indicators), various natural and synthetic biopolymers available and their suitability to fabricate bionanocomposite food packaging, the role of nanotechnology in preserving and maintaining the odor and flavor of packed food, and nanotechnology-based edible packaging in the form of coatings and thin films. Importantly, the book also assesses the possible health and safety issues associated with the involvement of nanotechnology in food applications.

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200,70 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781774639726

Medium: Buch

ISBN: 978-1-77463-972-6

Verlag: Apple Academic Press

Erscheinungstermin: 06.10.2022

Sprache(n): Englisch

Auflage: 1. Auflage 2022

Produktform: Gebunden

Gewicht: 594 g

Seiten: 302

Format (B x H): 157 x 235 mm

