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Novel Approaches of Nanotechnology in Food

By Grumezescu, Alexandru

Condition: New. Publisher/Verlag: Academic Press | Novel Approaches of Nanotechnology in Food , a volume in the Nanotechnology in the Agri-Food Industry series, represents a summary of the most recent advances made in the field of nanostructured materials that have significant impact on the agri-food industry. Because the current food market needs innovation, nanotechnology coupled with novel interdisciplinary approaches and processing methods has enabled important advances that have the potential to revolutionize agri-food sector. Nanotechnology can serve to resolve challenges faced by the food and bioprocessing industries for developing and implementing systems that can produce qualitative and quantitative foods that are safe, sustainable, and ecofriendly. This book is a valuable resource for scientists, researchers, and engineers in food science and biotechnology fields, as well as students who want information on cutting-edge technologies. Provides worldwide research applications of nanomaterials and nanotechnology useful in food research Presents analytical methods for enzyme immobilization onto magnetic nanoparticles Includes strategies of behavior and structure function to increase application enhancement and control Discusses nanomaterial regulations and for consumer protection awareness | Chapter 1. An update of definitions and regulations regarding nanomaterials in foods and other consumer products Chapter 2. Applications and implications of nanotechnology in aquaculture Chapter 3. Natural materials as promising...

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