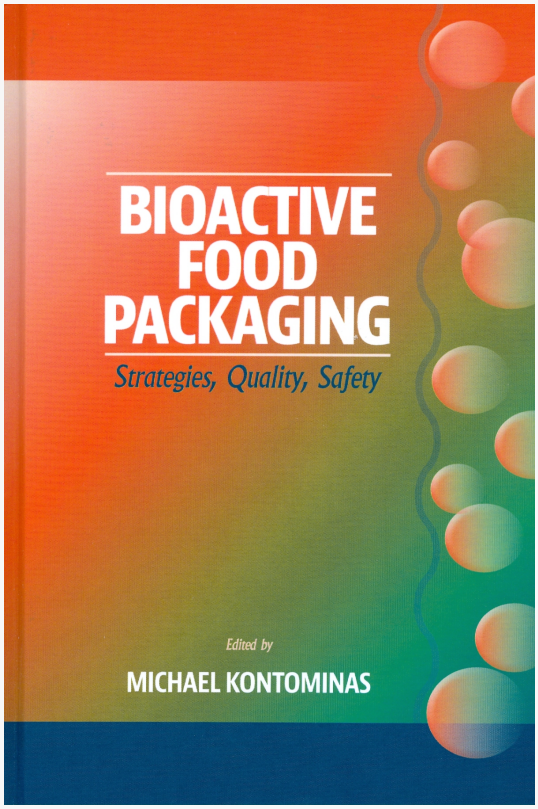
New Book on Bioactive Food Packaging: Covers preservation and safety of many packaged foods

•Explains bioactive and biobased materials used for food packaging
•Investigates migration, controlled release, edible coatings and films



Biobased materials for packaginng

LANCASTER, PA, USA, January 5, 2016 /EINPresswire.com/ -- (Lancaster, PA USA, December 2015)—DEStech Publications, Inc. announces the publication of Bioactive Food Packaging: Strategies, Quality, Safety; edited by Michael Kontominas, Dept. of Chemistry, University of Ioannina and Dept. of Chemistry, American University of Cairo.

This engineering book brings together two of the key strands in food packaging: active packaging and natural, often biobased, components. The text investigates the chemistry, effects and technical incorporation of bioactives into different forms of packaging. Specifically, chapters focus on techniques for impregnating natural substances into conventional and biodegradable food packaging materials with an emphasis on their antioxidant and antimicrobial functions. Oxygen scavengers, plant extracts, essential oils, enzymes, phytochemicals, polysaccharides are investigated.

Chapters discuss how bioactives are combined with packaging to suppress microbes and improve the quality of meat, seafood, dairy and cereal products. How bioactives affect packaging development, such as scale-up, fabrication and labeling is discussed, as are European and U.S. regulations. Chapters Include:

> "The chapter on bioactive biopolymer-based materials is the stand-out chapter in the book. The editor is to be congratulated on getting 26 authors from 8 countries to contributing the chapters"
>
> *Dr Gordon L. Robertson, University of Queensland*

Bioactive Packaging of Foods: Quality and Safety Issues; Bioactive Agents and Polymers;Surface Modification of Packaging Films by Coatings with Bioactive Compounds and Biopolymers; Diffusion of Bioactive Compounds from Edible Packaging Material to the Contained Food/Modeling Migration; Efficiency of Antimicrobial and Antioxidant Food Packaging Systems: Role of Bioactive Compounds; Biopolymer-Based Materials in Food Packaging; Advanced Bioactive Biopolymer-Based Materials in Food Packaging; Nanotechnology as a Facile Route for Dispersion of Active Molecules into Biopolymers; Bioactive Packaging Systems Containing Lysozyme; Antimicrobial Edible Films; Novel EVOH Developments for Active/Bioactive Food Packaging

Applications; EU Regulations and General Principles.
You can examine 20% of the book in the bookstore at www.destechpub.com.

Bioactive Food Packaging is published by DEStech Publications, Inc., best known for advanced publications in engineering and science. ISBN: 978-1-60595-117-1, December 2015, 474 pages, 6x9, Hardcover.
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Michael Hauck
DEStech Publications, Inc.
717-290-1660
email us here
