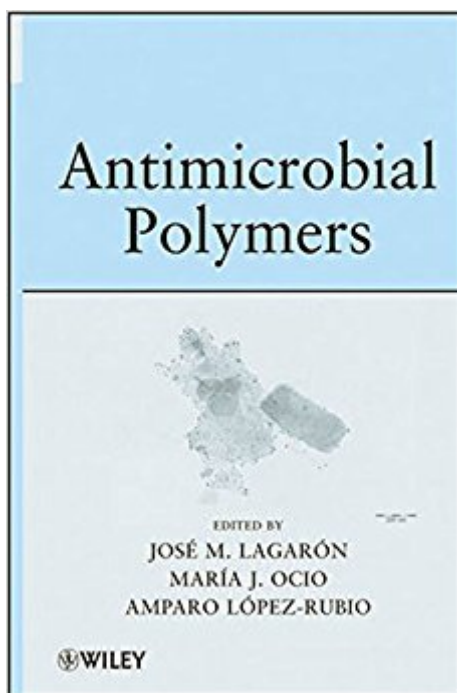


The book was found

Antimicrobial Polymers



Synopsis

The pioneering guide on the design, processing, and testing of antimicrobial plastic materials and coatings The manifestation of harmful microbes in plastic materials used in medical devices and drugs, water purification systems, hospital equipment, textiles, and food packaging pose alarming health threats to consumers by exposing them to many serious infectious diseases. As a result, high demand for intensifying efforts in the R&D of antimicrobial polymers has placed heavy reliance on both academia and industry to find viable solutions for producing safer plastic materials. To assist researchers and students in this endeavor, *Antimicrobial Polymers* explores coupling contaminant-detering biocides and plastics—focusing particular attention on natural biocides and the nanofabrication of biocides. Each chapter is devoted to addressing a key technology employed to impart antimicrobial behavior to polymers, including chemical modification of the polymers themselves. A host of relevant topics, such as regulatory matters, human safety, and environmental risks are covered to help lend depth to the book's vital subject matter. In addition, *Antimicrobial Polymers*: Discusses the design, processing, and testing of antimicrobial plastic materials Covers interdisciplinary areas of chemistry and microbiology Includes applications in food packaging, medical devices, nanotechnology, and coatings Details regulations from the U.S. (FDA and EPA) and EU as well as human safety and environmental concerns Achieving cleaner and more effective methods for improving the infection-fighting properties of versatile and necessary plastic materials is a goal that stretches across many scientific fields. *Antimicrobial Polymers* combines all of this information into one volume, exposing readers to preventive strategies that harbor vast potential for making exposure to polymeric products and surfaces a far less risky undertaking in the future.

Book Information

Hardcover: 608 pages

Publisher: Wiley; 1 edition (January 24, 2012)

Language: English

ISBN-10: 0470598220

ISBN-13: 978-0470598221

Product Dimensions: 6.5 x 1.4 x 9.6 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,034,306 in Books (See Top 100 in Books) #68 in Books > Engineering &

Customer Reviews

The pioneering guide on the design, processing, and testing of antimicrobial plastic materials and coatings The manifestation of harmful microbes in plastic materials used in medical devices and drugs, water purification systems, hospital equipment, textiles, and food packaging pose alarming health threats to consumers by exposing them to many serious infectious diseases. As a result, high demand for intensifying efforts in the R&D of antimicrobial polymers has placed heavy reliance on both academia and industry to find viable solutions for producing safer plastic materials. To assist researchers and students in this endeavor, *Antimicrobial Polymers* explores coupling contaminant-deterring biocides and plastics; focusing particular attention on natural biocides and the nanofabrication of biocides. Each chapter is devoted to addressing a key technology employed to impart antimicrobial behavior to polymers, including chemical modification of the polymers themselves. A host of relevant topics, such as regulatory matters, human safety, and environmental risks are covered to help lend depth to the book's vital subject matter. In addition, *Antimicrobial Polymers*: Discusses the design, processing, and testing of antimicrobial plastic materials Covers interdisciplinary areas of chemistry and microbiology Includes applications in food packaging, medical devices, nanotechnology, and coatings Details regulations from the U.S. (FDA and EPA) and EU as well as human safety and environmental concerns Achieving cleaner and more effective methods for improving the infection-fighting properties of versatile and necessary plastic materials is a goal that stretches across many scientific fields. *Antimicrobial Polymers* combines all of this information into one volume, exposing readers to preventive strategies that harbor vast potential for making exposure to polymeric products and surfaces a far less risky undertaking in the future.

JOSÉ M. LAGARÓN, PhD, is Founder and Group-Leader of the Novel Materials and Nanotechnology Group of the Institute of Agrochemistry and Food Technology (IATA) of the Spanish Council for Scientific Research (CSIC) in Valencia, Spain. and is part-time Professor of Materials Science at the Universitat Jaume I. Dr. Lagaron has published more than one hundred peer-reviewed papers, a book and several book chapters, and has fourteen patent applications in nanotechnology applied to polymers. MARÍA J. OCIO, PhD, is a Food Technologist Tenure Track Lecturer at the Preventive Medicine Department of the University of Valencia and also project

leader within the Novel Materials and Nanotechnology Lab at the Institute of Agrochemistry and Food Technology of CSIC. She has a wide knowledge and experience in the handling of microorganisms of interest in the food industry. Dr. Ocio has over forty publications in peer-reviewed international journals. AMPARO LÃfÂ PEZ-RUBIO, PhD, is a research scientist and project leader within the Novel Materials and Nanotechnology Group of the IATA-CSIC. She has published over thirty-five papers in peer-reviewed international journals on the subjects of food technology, nanotechnology, packaging and biopackaging.

[Download to continue reading...](#)

Antimicrobial Polymers Biodegradable Polymers and Plastics (World Conference on Biodegradable Polymers and Plastics (7th) The Sanford Guide to Antimicrobial Therapy 2017 The Sanford Guide to Antimicrobial Therapy 2016 2017 Nelson's Pediatric Antimicrobial Therapy Antimicrobial Stewardship: Principles and Practice Antimicrobial Therapy in Veterinary Medicine Biochemistry and Molecular Biology of Antimicrobial Drug Action Antimicrobial Pharmacodynamics in Theory and Clinical Practice, Second Edition (Infectious Disease and Therapy) Antimicrobial Pharmacodynamics in Theory and Clinical Practice (Infectious Disease and Therapy) Sanford Guide to Antimicrobial Therapy (Sanford Guide to Animicrobial Therapy) Handbook of Animal Models of Infection: Experimental Models in Antimicrobial Chemotherapy Compounding Materials for the Polymer Industries: A Concise Guide to Polymers, Rubbers, Adhesives, and Coatings Introduction to Synthetic Polymers Self-Healing Polymers and Polymer Composites Materials Science of Polymers for Engineers 3E Extrusion of Polymers 2E: Theory and Practice Polymers From the Inside Out: An Introduction to Macromolecules Compositional and Failure Analysis of Polymers: A Practical Approach Introduction to Polymers, Third Edition

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)