



# Antimicrobial Polymers

By Jose Maria Lagaron, Maria Jose Ocio, Amparo Lopez-Rubio

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**Antimicrobial Polymers** By Jose Maria Lagaron, Maria Jose Ocio, Amparo Lopez-Rubio

## **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.

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### Editorial Review

#### From the Back Cover

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#### About the Author

**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 LÓPEZ-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.

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