Biopolymers: New Materials for Sustainable Films and Coatings
David Plackett (Editor)

DESCRIPTION

As an area of high topical interest, *Biopolymers – New materials for Sustainable Films and Coatings* covers the development and utilization of polymers derived from bioresources, with a particular focus on film and coating applications.

With growing concern for the environment and the rising price of crude oil, there is increasing demand for non-petroleum-based polymers from renewable resources. Leading research groups worldwide in industry and academe are working on such technology with the objective of applying the latest advances in the field.

Written by well-respected experts, this text systematically covers the extraction and production of selected biopolymers as well as their properties and application as films or coatings in a variety of uses. The areas addressed include food packaging, edible coatings, paper coatings and agricultural films.

Intended for researchers and students, this book will also be of interest to industry, especially in terms of the practical applications.

ABOUT THE AUTHOR

David Plackett holds a PhD in Chemistry from the University of British Columbia in Canada and has held research and research management positions in various companies, research institutes and universities in the UK, Canada, New Zealand and Denmark. He has a career background in bio-based materials research and since 2002 he has been Senior Scientist and Biopolymers group leader at Risø National Laboratory for Sustainable Energy, part of the Technical University of Denmark (DTU) located near
Roskilde. Dr Plackett has more than 60 peer-reviewed publications and his research interests currently include the production and characterization of bioderived polymers and their property enhancement through the use of nanotechnology.

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