

Cellulose-Based Graft Copolymers: Structure and Chemistry

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Cellulose-Based Graft Copolymers: Structure and Chemistry discusses the synthesis, characterization, and properties of multifunctional cellulose-based graft copolymers. Presenting the contributions of accomplished experts in the field of natural cellulosic polymers, this authoritative text:

- Offers an overview of cutting-edge technical accomplishments in natural cellulose-based graft polymers
- Addresses a separate biomaterial in each chapter, exploring composition as well as graft copolymerization chemistry
- Covers fundamentals and applications including toxic ion removal, biomedical engineering, biofuels, micro/nano composites, papermaking, building materials, and defense

Cellulose-Based Graft Copolymers: Structure and Chemistry tackles several critical issues and provides suggestions for future work, supplying deeper insight into the state of the art of advanced cellulose-based graft copolymers.

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Editorial Review

Review

"… a good overview of the past and current pathways for cellulose-based graft copolymers."
?Dr. Minh Tan Ton-That, National Research Council Canada, Boucherville, Québec

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?Dr. Dilip Depan, University of Louisiana at Lafayette, USA

"With its distinguished editor and team of international contributors, this book will be an invaluable reference for academics, scientists, and researchers pertaining to the polymer field."
?Professor Tarun K. Maji, Tezpur University, India

"… provides valuable information on the latest developments of cellulose-based graft copolymers. … Every polymer scientist must read this book."
?Professor Mohd Sapuan Salit, Universiti Putra Malaysia, Serdang

"Each chapter is written with teaching skills and contains recent scientific information which will be useful … in different domains, such as polymer chemistry, biopolymers, plastic technology, material science, chemical engineering, forestry, agriculture, cellulose, green composites, and biotechnology."
?Dr. Silvia Ioan, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

"An interesting book for natural polymers that will be a good read for postgraduate researchers and material engineers and scientists alike searching for in-depth understanding of grafted cellulose. The book is detailed in grafting process and provides detailed examples of potential applications in environmental, medical and a selection of engineering sectors. A must have if you are into medical and health biomaterials."
?James Njuguna, Robert Gordon University, Aberdeen

About the Author

Vijay Kumar Thakur is currently a staff scientist in the School of Mechanical and Materials Engineering at Washington State University, Pullman, USA. His former appointments include a research scientist in Temasek Laboratories at Nanyang Technological University, Singapore, and a visiting research fellow in the Department of Chemical and Materials Engineering at Lunghwa University of Science and Technology, Taiwan. He completed his postdoctorate in materials science at Iowa State University, Ames, USA, and his Ph.D in polymer science at the National Institute of Technology, Hamirpur, India. In addition to being widely published, Dr. Thakur is an editorial board member of numerous international journals, guest editor of the *International Journal of Polymer Science* and *Journal of Chemistry*, and member of several scientific bodies around the world.

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Arthur Haynes:

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