



Green Polymerization Methods: Renewable Starting Materials, Catalysis and Waste Reduction

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Designing polymers and developing polymerization processes that are safe, prevent pollution, and are more efficient in the use of materials and energy is an important topic in modern chemistry. Today, green polymer research can be seen increasingly in academia and industry. It tackles all aspects of polymers and polymerization - everything from chemical feedstocks, synthetic pathways, and reaction media to the nature of the final polymer as related to its inherent nontoxicity or degradability. This book summarizes and evaluates the latest developments in green polymerization methods. Specifically, new catalytic methods and processes which incorporate renewable resources will be discussed by leading experts in the field of polymer chemistry. This book is a must-have for Polymer Chemists, Chemists Working with/on Organometallics, Biochemists, Physical Chemists, Chemical Engineers, Biotechnologists, Materials Scientists, and Catalytic Chemists.

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Editorial Review

From the Back Cover

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About the Author

Robert T. Mathers graduated from North Carolina State University with a B.S. in chemistry. After working under the direction of Professor Roderic P. Quirk at The University of Akron, he obtained a PhD in Polymer Science in 2002. After two years of postdoctoral research at Cornell University with Professor Geoffrey W. Coates in the Department of Chemistry and Chemical Biology, he joined Pennsylvania State University. Currently, he is an Associate Professor of Chemistry at the New Kensington campus. His research interests focus on green polymerization methods that integrate renewable resources, such as monoterpenes, with catalysis. Robert has also served as coeditor for the Handbook of Transition Metal Polymerization Catalysts published by Wiley.

Michael A. R. Meier (born 1975) studied chemistry at the University of Regensburg and obtained his doctorate in 2006 from the Eindhoven University of Technology, for which he was awarded with the Golden Thesis Award of the Dutch Polymer Institute. In 2006 he was appointed principal investigator of the junior research group Renewable Raw Materials at the University of Applied Sciences in Emden, Germany. In June 2009 he became Juniorprofessor for Sustainable Organic Synthesis at the University of Potsdam, Germany. Since October 2010 he is full professor at the Karlsruhe Institute for Technology in Karlsruhe, Germany. In 2010 he was awarded with the European Young Lipid Scientist Award of European Federation for the Science and Technology of Lipids. His current research focuses on a sustainable use of plant oils and other renewable resources for the synthesis of novel monomers, fine chemicals, and polymers. He is an author of more than 70 journal publications and co-inventor on three patents.

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