



Green Polymer Chemistry: Biobased Materials and Biocatalysis (Hardback)

By -

Oxford University Press Inc, United States, 2016. Hardback. Book Condition: New. 231 x 161 mm. Language: English . Brand New Book. Green chemistry is the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances. Green polymer chemistry is an extension of green chemistry to polymer science and engineering. Developments in this area have been stimulated by health and environmental concerns, interest in sustainability, desire to decrease the dependence on petroleum, and opportunities to design and produce green products and processes. Major advances include new uses of biobased feedstock, green reactions, green processing methodologies, and green polymeric products. A current feature of green polymer chemistry is that it is both global and multidisciplinary. Thus, publications in this field are spread out over different journals in different countries. Moreover, a successful research effort may involve collaborations of people in various disciplines, such as organic chemistry, polymer chemistry, material science, chemical engineering, biochemistry, molecular biology, microbiology, enzymology, toxicology, environmental science, and analytical chemistry. This book combines the major interdisciplinary research in this field and is targeted for scientists, engineers, and students, who are involved or interested in green polymer chemistry. These may include chemists, biochemists,...



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