



Bio Monomers for Green Polymeric Composite Materials

Visakh P. M. (Editor), Oguz Bayraktar (Editor), Gopalakrishnan Menon (Editor)

E-Book	978-1-119-30170-7	August 2019	\$120.99
Hardcover	978-1-119-30164-6	November 2019	\$150.00
O-Book	978-1-119-30171-4	September 2019	Available on Wiley Online Library

DESCRIPTION

Presents new and innovative bio-based monomers to replace traditional petrochemical-based building blocks

Featuring contributions from top experts in the field, this book discusses new developments in the area of bio monomers and green polymeric composite materials. It covers bio monomers, green polymeric composites, composites from renewable resources, bio-sourced polymers, green composites, biodegradation, processing methods, green polymeric gels, and green polymeric membranes.

Each chapter in *Bio Monomers for Green Polymeric Composites Materials* presents the most recent research and technological ideas in a comprehensive style. It examines bio monomers for green polymer and the processing methods for the bio nanocomposites. It covers the preparation, characterization, and applications of bio-polymeric materials based blends, as well as the applications of biopolymeric gels in medical biotechnology. The book also explores the properties and applications of gelatins, pectins, and carrageenans gels. Additionally, it offers a plethora of information on green polymeric membranes; the bio-degradation of green polymeric composites materials; applications of green polymeric composites materials; hydrogels used for biomedical applications; and the use of natural aerogels as thermal insulations.

- Introduces readers to the innovative, new bio-based monomers that are taking the place of traditional petrochemical-based building blocks
- Covers green polymers, green composites, bio-sourced polymers, bio nanocomposites, biodegradable polymers, green polymer gels, and membranes

- Features input from leading researchers immersed in the area of study

Bio Monomers for Green Polymeric Composites Materials is suitable for academics, researchers, scientists, engineers and advanced students in the field of bio monomers and green polymeric composites materials.

ABOUT THE AUTHOR

P.M. Visakh, MSc, MPhil, PhD, is Assistant Professor at TUSUR University, Tomsk, Russia.

Oguz Bayraktar, MSc, PhD, is Professor in the Department of Chemical Engineering at Ege University, Turkey.

Gopalakrishnan Menon, MSc, PhD, works at the Laboratory of Biochemistry and Molecular Biology at Tomsk State University, Russia.

To purchase this product, please visit <https://www.wiley.com/en-us/9781119301707>