

Chemistry And Technology Of Biodegradable Polymers

Kirk-Othmer



Chemistry And Technology Of Biodegradable Polymers:

Chemistry and Technology of Biodegradable Polymers G. Griffin, 1993-12-31 Since the early 1970s the subject of biodegradable plastics has acquired a rapidly growing literature of academic research papers It has also acquired a formidable volume of patent documentation and all this has been overwhelmed by an astonishing quantity of serious media and political comment A new entrant into any technical arena would in most technologies simply visit their technical library and pick up a text book on the subject in the expectation of absorbing the basic facts before launching into the daily task of updating and evaluating Scientific conferences have produced many substantial volumes carrying the word biodegradable on their covers and there has even been a specialist monograph on the topic of bacterially produced polymers but surprisingly no book has yet emerged providing a general survey of the subject Having devoted half my professional career to the subject of biodegradable plastics I agreed to take on the editorial job of producing such a book when asked by the publisher I knew that the task of finding expert specialists and persuading them to contribute dispassionate accounts of their specialisms would not be easy but the difficulties that I have encountered were far greater than I expected Some were simply too busy others were involved in patent disputes or commercial negotiations In giving an account of the work that I and my students carried out at Brunel University I believe that I have written in a manner that displays enthusiasm without prejudice A Handbook of Applied Biopolymer Technology Sanjay Kumar Sharma, Ackmez Mudhoo, 2011 Scientists are conducting active research in different fields of engineering science and technology by adopting the Green Chemistry Principles and methodologies to devise new processes with a view to help protect and ultimately save the environment from further anthropogenic interruptions and damage With this in mind the book provides an up to date coherently written and objectively presented set of chapters from eminent international researchers who are actively involved in academic and technological research in the synthesis bio degradation testing and applications of biodegradable polymers and biopolymers This pool of the latest ideas recent research and technological progress together with a high level of thinking with a comprehensive perspective makes the emerging field of biodegradable polymer science and engineering or bio based polymers linked to environmental sustainability the essence of this key publication The handbook consists of chapters written and contributed by international experts from academia who are world leaders in research and technology in sustainability and biopolymer and biodegradable polymer synthesis characterisation testing and use The book highlights the following areas green polymers biopolymers and bionanocomposites biodegradable and injectable polymers biodegradable polyesters synthesis and physical properties discovery and characterization of biopolymers degradable bioelastomers lactic acid based biodegradable polymers enzymatic degradation of biodegradable polymers biodegradation of polymers in the composting environment recent development in biodegradable polymers research and applications and biodegradable foams The book is aimed at technical research orientated and marketing people in industry universities and institutions It will also be of value to the

worldwide public interested in sustainability issues and biopolymer development as well as others interested in the practical means that are being used to reduce the environmental impacts of chemical processes and products to further eco efficiency and to advance the utilization of renewable resources for a bio based production and supplier chain Readers will gain a comprehensive and consolidated overview of the immense potential and ongoing research in bio based and biodegradable polymer science engineering and technology to make the world greener

Handbook of Biodegradable Polymers Catia Bastioli,2005 This book is a complete guide to polymers which degrade naturally once they are finished with This is an especially important topic at the moment as landfill space is getting less and other methods of recycling can be very costly This book discusses the different types of biodegradable polymers both naturally occurring and synthetic and how they are used and the mechanisms for degradation

Handbook of Chemical Technology and Pollution Control Martin Blake Hocking,1998 This practical book integrates the subject of industrial chemistry with pollution control and environmental chemistry With this unified approach *Handbook of Chemical Technology and Pollution Control* meets the requirements of practicing professionals and consultants for a concise reference to the key features relative importance and environmental impact of currently operating chemical processes The book is also designed to meet the critical needs of students training for industrial careers Coverage includes the major inorganic and organic commodity chemicals aluminum iron and steel and copper production pulp and paper fermentation petroleum production and refining plus key topics and process details for major petrochemicals and large scale consumer and engineering polymers Aspects of recycling at the industrial and postconsumer levels are described for many of these materials A quantitative approach is emphasized throughout as used in the author s well known life cycle work with disposable and reusable cups

Handbook of Polymers for Pharmaceutical Technologies, Biodegradable Polymers Vijay Kumar Thakur,Manju Kumari Thakur,2015-09-23 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe This 4 partset of books contains precisely referenced chapters emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry Each volume offer deep insight into the subject being treated Volume 1 Structure and Chemistry Volume 2 Processing and Applications Volume 3 Biodegradable Polymers Volume 4 Bioactive and Compatible Synthetic Hybrid Polymers

Green Chemistry, Sustainable Processes, and Technologies Hirech, Kamal,El Massaoudi, Mohamed,2025-04-22 As global environmental concerns like

climate change rise green chemistry seeks to transform traditional chemical practices by incorporating renewable resources safer alternatives and cleaner technologies By reimagining how chemicals are produced and used green chemistry offers innovative solutions that not only reduce environmental impact but also enhance economic potential across industries From pharmaceuticals to energy the integration of sustainable processes paves the way for industrial growth aligned with environmental stewardship Further research will play a critical role in advancing a more sustainable and eco conscious global economy Green Chemistry Sustainable Processes and Technologies explores the innovative intersection of chemistry and sustainability focusing on the development of processes and technologies that minimize environmental impact while optimizing efficiency and safety It examines strategies for a more sustainable and eco friendly future supporting both the advancement of science and the global goals for sustainable development This book covers topics such as drug delivery environmental depollution and plant materials and is a useful resource for chemists environmental scientists biologists business owners academicians and researchers

The Chemistry of Bio-based Polymers Johannes Karl Fink, 2014-02-24
An exhaustive and timely overview of renewable polymers from a respected chemist and successful author The recent explosion of interdisciplinary research has fragmented the knowledge base surrounding renewable polymers The Chemistry of Bio based Polymers brings together in one volume the research and work of Professor Johannes Fink focusing on biopolymers that can be synthesized from renewable polymers After introducing general aspects of the field the book's subsequent chapters examine the chemistry of biodegradable polymeric types sorted by their chemical compounds including the synthesis of low molecular compounds Various categories of biopolymers are detailed including vinyl based polymers acid and lactone polymers ester and amide polymers carbohydrate related polymers and others Procedures for the preparation of biopolymers and biodegradable nanocomposites are arranged by chemical methods and in vitro biological methods with discussion of the issue of plastics from bacteria The factors influencing the degradation and biodegradation of polymers used in food packaging exposed to various environments are detailed at length The book covers the medical applications of bio based polymers concentrating on controlled drug delivery temporary prostheses and scaffolds for tissue engineering Professor Fink also addresses renewable resources for fabricating biofuels and argues for localized biorefineries as biomass feedstocks are more efficiently handled locally Audience The Chemistry of Bio based Polymers will be read by chemists polymer and materials scientists chemical bio based and biomedical engineers agricultural and environmental faculty and all those who work in the bioeconomy area This book will be critical for engineers in a number of industries including food packaging medical devices personal care fuels auto and construction

Chemical Technology Andreas Jess, Peter Wasserscheid, 2019-12-13 A fully updated edition of a popular textbook covering the four disciplines of chemical technology featuring new developments in the field Clear and thorough throughout this textbook covers the major sub disciplines of modern chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general

chemical technology alongside raw materials energy sources and detailed descriptions of 24 important industrial processes and products It brings information on energy and raw material consumption and production data of chemicals up to date and offers not just improved and extended chapters but completely new ones as well This new edition of Chemical Technology From Principles to Products features a new chapter illustrating the global economic map and its development from the 15th century until today and another on energy consumption in human history Chemical key technologies for a future sustainable energy system such as power to X and hydrogen storage are now also examined Chapters on inorganic products material reserves and water consumption and resources have been extended while another presents environmental aspects of plastic pollution and handling of plastic waste The book also adds four important processes to its pages production of titanium dioxide silicon production and chemical recycling of polytetrafluoroethylene and fermentative synthesis of amino acids Provides comprehensive coverage of chemical technology from the fundamentals to 24 of the most important processes Intertwines the four disciplines of chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology Fully updated with new content on power to X and hydrogen storage inorganic products including metals glass and ceramics water consumption and pollution and additional industrial processes Written by authors with extensive experience in teaching the topic and helping students understand the complex concepts Chemical Technology From Principles to Products Second Edition is an ideal textbook for advanced students of chemical technology and will appeal to anyone in chemical engineering

Textile Technology Digest ,1995 Environmental Management Technologies Pankaj Chowdhary,Vineet Kumar,Sunil Kumar,Vishvas Hare,2022-11-29 Environmental Management Technologies Challenges and Opportunities details the environmental problems posed by the various types of toxic organic and inorganic pollutants discharged from both natural and anthropogenic activities and their toxicological effects in environments humans animals and plants This book also highlights the recent advanced and innovative methods for the effective degradation and bioremediation of organic pollutants heavy metals dyes etc from the environment for sustainable development Features of the book Provides state of the art information on pollutants their sources and deleterious impacts on the environment Elucidates the recent updates on Emerging Pollutants EPs in pharmaceutical waste and personal care products Discusses the various physico chemical biological and combination treatment systems for sustainable development Details recent research findings in the area of environmental waste management and their future challenges and opportunities

Poly(lactic acid) Science and Technology Alfonso Jiménez,Mercedes Peltzer,Roxana Ruseckaite,2015 A comprehensive overview of the synthesis characterisation properties and applications of poly lactic acid science and technology covering scientific ecological social and economic issues Biodegradable Polymers Manjari Sharma,2021-04-15 This book is about development of biodegradable polymers alternatives which are required to save our reserves of fossil fuels and to save our mother earth from further environmental degradation This book deals with the family of biodegradable

polymers which have to be prepared with a novel idea of studying polymers with a Cradle to Grave approach It touches upon basic materials which can be potential materials to prepare biodegradable polymers with their basic structures properties behaviour and limitations known till date This book will help students in understanding various characterization techniques which can be used for the study of identification of functional group structural properties thermal behaviour crystallographic nature mechanical properties and morphological properties through FTIR ATR for physico chemical properties DSC TGA for thermal studies XRD for crystallographic studies SEM for morphological studies It also provides an overview of various testing methods to analyse biodegradability including standard guideline for evaluation of biodegradation and compostability of polymer material through ASTM ISO EN standard methods Note T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka [The Cumulative Book Index](#) ,1996 A world list of books in the English language

Kirk-Othmer Encyclopedia of Chemical Technology, Pigments to Powders, Handling

Kirk-Othmer,1996-07-08 [Biodegradable Polymers in the Circular Plastics Economy](#) Michiel Dusselier,Jean-Paul Lange,2022-05-06 Biodegradable Polymers in the Circular Plastics Economy A comprehensive overview of the burgeoning field of biodegradable plastics As the lasting impact of humanity s reliance on plastics comes into focus scholars have begun to seek out solutions to plastic litter In Biodegradable Polymers in the Circular Plastics Economy an accomplished team of researchers delivers a focused guide 1 to understand plastic degradation and its role in waste hierarchy besides recycling and 2 to create and use biodegradable plastics where appropriate Created preferably from renewable resources these eco friendly polymers provide an opportunity to create sustainable and lasting solutions to the growing plastic driven pollution problem The broad approach to this handbook allows the authors to cover all aspects of these emerging materials ranging from the problems present in the current plastics cycle to the differences in type production and chemistry available within these systems to end of life via recycling or degradation and to life cycle assessments It also delves into potential commercial and policy issues to be addressed to successfully deploy this technology Readers will also find A thorough introduction to biodegradable polymers focusing not only on the scientific aspects but also addressing the larger political commercial and consumer concerns Mechanisms of biodegradation and the environmental impact of persistent polymers An in depth discussion of degradable hydrolysable polyesters polysaccharides lignin based polymers and vitrimers Management of plastic waste and life cycle assessment of bio based plastics Biodegradable Polymers in the Circular Plastics Economy is the perfect overview of this complicated but essential research field and will appeal to polymer chemists environmental chemists chemical engineers and bioengineers in academia and industry The book is intended as a step towards a circular plastics economy that relies heavily on degradable plastics to sustain it **Biodegradable Polymers** Margarita del Rosario Salazar,Jose Fernando Solanilla Duque,Aide Saenz-Galindo,Raul Rodriguez-Herrera,2023-03-16 Basic concepts on biodegradable biopolymer science are presented in this book as well as techniques analyses standards and essential criteria

for the characterization of biodegradable materials obtained from biopolymers The development and innovation of products and processes considering the environment are highlighted in this book All of the applications described have been discussed from the point of view of sustainability Additionally this book highlights that biodegradability is a great burden when trying to replace modify and or design existing products and processes that are highly polluting Finally the present book concludes with reflections on the development of biopolymers in different areas and some of their consequences depending on their biodegradability

Advances in Biodegradable Polymers G. F. Moore, S. M. Saunders, 1998-02 In this report the factors which influence biodegradation are first explained Methods of testing and evaluating biodegradation are then described and compared The principles relative costs and practical applications of specific tests are outlined together with the position with respect to recognised standards The range of biodegradable polymers and polymer blends is then described including natural and synthetic products An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading

Chemical Engineering Progress, 1993

Encyclopedia of Chemical Technology, 1984 Alphabetical arrangement of entries that reflect current topics of interest to scientists chemists and engineers e g health safety toxicology and new materials Comprehensive coverage Each entry consists of lengthy signed article with illustrations and bibliography

Encyclopedia of Polymer Science and Technology, v. 9. Acrylic fibers to ethylene oxide polymers, 2004

The Enigmatic Realm of **Chemistry And Technology Of Biodegradable Polymers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Chemistry And Technology Of Biodegradable Polymers** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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