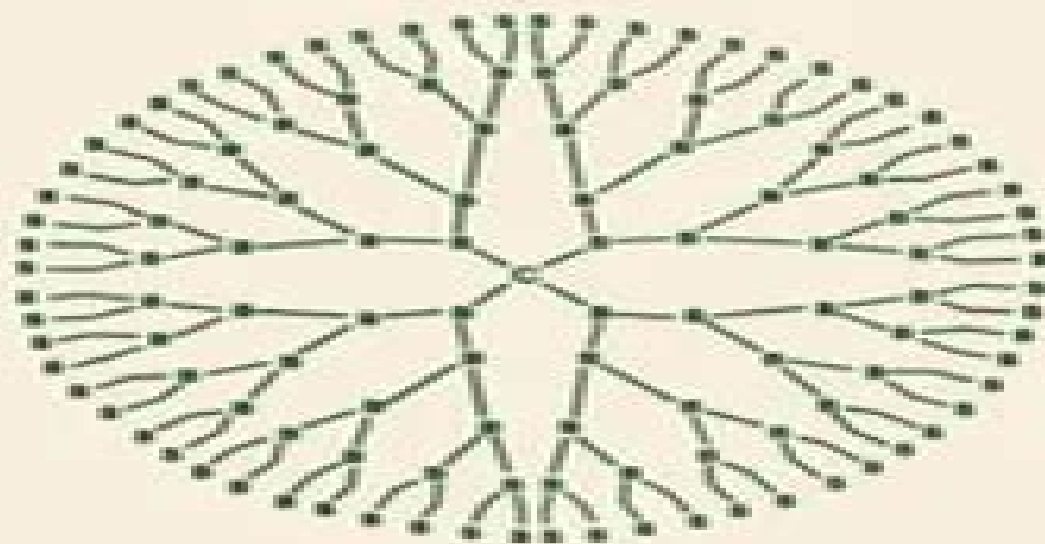


# **Step-Growth Polymers for High-Performance Materials**

*New Synthetic Methods*



EDITED BY  
**James L. Hedrick and Jeff W. Labadie**

ACS Symposium Series 624

# Step Growth Polymers For High Performance Materials

**Charles E. Carraher Jr., Graham G.  
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*Polymers for PEM Fuel Cells* Hongting Pu, 2014-10-01 Including chemical synthetic and cross disciplinary approaches this book includes the necessary techniques and technologies to help readers better understand polymers for polymer electrolyte membrane PEM fuel cells The methods in the book are essential to researchers and scientists in the field and will lead to further development in polymer and fuel cell technologies Provides complete essential and comprehensive overview of polymer applications for PEM fuel cells Emphasizes state of the art developments and methods like PEMs for novel fuel cells and polymers for fuel cell catalysts Includes detailed chapters on major topics like PEM for direct liquid fuel cells and fluoropolymers and non fluorinated polymers for PEM Has relevance to a range of industries like polymer engineering materials and green technology involved with fuel cell technologies and R D

Step-growth polymers for high-performance materials : new synthetic methods ; developed from a symposium sponsored by the Division of Polymer Chemistry, Inc., at the 209. National Meeting of the American Chemical Society, Anaheim, California, April 2 - 7, 1995 Hedrick James L., 1996

**Handbook of Chemical Technology and Pollution Control** Martin B. B. Hocking, 2006-01-18 The Handbook of Chemical Technology and Pollution Control Third Edition provides a detailed review of the chemistry and operating conditions of many of the present large scale chemical processes important to our economy and high standards of living The processes that could lead to emissions affecting our air soil and water are considered together with ways in which it may be possible to reduce or eliminate these pollutants Focusing on cleaner production concepts without neglecting end of pipe measures With an increase in the awareness of corporate and social responsibility among business and industry leaders the pressure to reduce harmful emissions and the desire to increase efficiencies and energy utilization this book provides an essential resource Suitable for researchers practitioners and postgraduate students in the fields of chemical and biochemical engineering and environmental science as well as government monitoring and regulatory agencies and industry leaders who want to stay one step ahead this book will be a

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**Advanced Polyimide Materials** Shi-Yong Yang, 2018-04-20 Advanced Polyimide Materials Synthesis Characterization and Applications summarizes and reviews recent research and developments on several key PI materials A wide array of PI materials are included including high performance PI films for microelectronic fabrication and packaging display and space applications fiber reinforced PI composites for structural applications in aerospace and aviation industries and PI photoresists for integrated circuit packaging The chemical features of PI are also described including semi alicyclic PIs fluorinated PIs phosphorous containing PIs silicon containing PIs and other new varieties providing a comprehensive overview on PI materials while also summarizing the latest research The book serves as a valuable reference book for engineers and students working on polymer materials microelectronics manufacturing and packaging in industries such as aerospace and aviation Reviews the latest research development and future prospective of polyimides Describes the progress made in the research on polyimide materials including polyimide films matrices for carbon fiber composites coatings for microelectronics and display devices forms and fibers Presents a highly organized work that is composed of different sections that are easily compared

**Progress in Polyimide Chemistry I** H.R. Kricheldorf, 2008-03-05 With contributions by numerous experts

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### **Nanotechnology**

**Research Methods for Food and Bioproducts** Graciela Wild Padua, PhD, Qin Wang, PhD, 2012-02-08 Food nanotechnology is an expanding field This expansion is based on the advent of new technologies for nanostructure characterization visualization and construction Nanotechnology Research Methods for Food and Bioproducts introduces the reader to a selection of the most widely used techniques in food and bioproducts nanotechnology This book focuses on state of the art equipment and contains a description of the essential tool kit of a nanotechnologist Targeted at researchers and product development teams this book serves as a quick reference and a guide in the selection of nanotechnology experimental research tools

### **Ring Opening Metathesis Polymerisation and Related Chemistry** Ezat Khosravi, T.

Szymanska-Buzar, 2012-12-06 Since the last ASI in Turkey in Sept 1995 the olefin metathesis has made remarkable strong developments with an incredible speed in various directions New catalyst systems have been developed which have resulted in the synthesis of novel materials Other fascinating developments have been the new catalysts for stereoselective metathesis and catalysts with considerable functional group tolerance These new catalysts in addition to Ring Opening Metathesis Polymerisation ROMP and Acyclic Diene Metathesis ADMET are now powerful tools for Ring Closing Metathesis RCM and have found many applications in the synthesis of natural products A lot of information has been established about all aspects of the olefin metathesis and there is a vast literature concerning the process covering the initiators mechanistic features and applications of this reaction in organic and polymer synthesis The NATO ASI on ROMP and Related Chemistry took place in Polanica Zdroj Poland during 3 to 15 Sept 2000 to highlight the developments in this area and to discuss the prospects and visions for the year 2000 and beyond The aims of the ASI were to provide a platform for dissemination of knowledge to promote communication between people who have a serious interest in this field of chemistry to help establishing international scientific contacts and to provide an opportunity for the scientists with an appropriate scientific background to learn of recent developments in this field of science There were 15 lecturers and 67 participants in this NATO ASI

**Functional Condensation Polymers** Charles E. Carraher Jr., Graham G. Swift, 2007-05-08 Although in nature the vast majority of polymers are condensation polymers much publicity has been focused on functionalized vinyl polymers Functional Condensation Polymers fulfills the need to explore these polymers which form an increasingly important and diverse foundation in the search for new materials in the twentyfirst century Some of the advantages condensation polymers hold over vinyl polymers include offering different kinds of binding sites their ability to be made biodegradable and their different reactivities with various reagents under diverse reaction conditions They also offer better tailoring of end products different tendencies such as fiber formation and different physical and chemical properties Some of the main areas

emphasized include dendrimers control release of drugs nanostructure materials controlled biomedical recognition and controllable electrolyte and electrical properties

**Organic Catalysis for Polymerisation** Andrew Dove, Haritz Sardon, Stefan Naumann, 2018-11-16 Organic Catalysis for Polymerisation has been edited by leading figures in the field and provides a holistic overview of the field

*Polymer Science: A Comprehensive Reference*, 2012-12-05 The progress in polymer science is revealed in the chapters of Polymer Science A Comprehensive Reference Ten Volume Set In Volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films Volume 2 addresses new characterization techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods Volume 4 is devoted to kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins ROMP as well as to various less common polymerization techniques Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5 Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the

science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner

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**Polymer Yearbook 15** Richard A. Pethrick,1998-11-26 This volume contains reviews on state of the art Japanese research presented in the annual Spring and Autumn meetings of the Japanese Polymer Science Society The aim of this section is to make information on the progress of Japanese Polymer Science and on topics of current interest to polymer scientists in Japan more easily available worldwide

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**Macromolecular Symposia, No. 199** Hans R. Kricheldorf,2003 The international symposium POLYCONDENSATION 2002 15 18 September in Hamburg Germany was the 4th meeting of a series launched in Paris 1996 This symposium covered topics such as New theories New synthetic methods Block copolymers Hyperbranched polymers Liquid crystalline polymers Properties and application This book contains oral contributions of the symposium

**Handbook of Thermoplastics** Olagoke Olabisi,Kolapo Adewale,2016-02-03 This new edition of the bestselling Handbook of Thermoplastics incorporates recent developments and advances in thermoplastics with regard to materials development processing properties and applications With contributions from 65 internationally recognized authorities in the field the second edition features new and updated discussions of seve

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