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Polymer Physics

A Molecular Approach

Springer Science & Business Media A molecular view on the fundamental issues in polymer physics is provided with an aim at students in chemistry, chemical engineering, condensed matter physics and material science courses. An updated translation by the author, a renowned Chinese chemist, it has been proven to be an effective source of learning for many years. Up-to-date developments are reflected throughout the work in this concise presentation of the topic. The author aims at presenting the subject in an efficient manner, which makes this particularly suitable for teaching polymer physics in settings where time is limited, without having to sacrifice the extensive scope that this topic demands.

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Polymers in Telecommunication Devices

iSmithers Rapra Publishing This report discusses the use of the use of polymers instead of and in conjunction with, traditional platforms such as indium phosphide and ferroelectric ceramic lithium niobate. Critical comparisons are made between use of polymers and alternative. This review report gives an overview of all the elements of optical transmission and switching systems that are used in telecommunications and is a fully interdisciplinary account of materials and device design issues. An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database gives useful references for further reading.

Polymer and Biopolymer Brushes

For Materials Science and Biotechnology

John Wiley & Sons Serves as a guide for seasoned researchers and students alike, who wish to learn about the cross-fertilization between biology and materials that is driving this emerging area of science This book covers the most relevant topics in basic research and those having potential technological applications for the field of biopolymer brushes. This area has experienced remarkable increase in development of practical applications in nanotechnology and biotechnology over the past decade. In view of the rapidly growing activity and interest in the field, this book covers the introductory features of polymer brushes and presents a unifying and stimulating overview of the theoretical aspects and emerging applications. It immerses readers in the historical perspective and the frontiers of research where our knowledge is increasing steadily—providing them with a feeling of the enormous potential, the multiple applications, and the many up-and-coming trends behind the development of macromolecular interfaces based on the use of polymer brushes. *Polymer and Biopolymer Brushes: Fundamentals and Applications in Materials* offers chapters on: *Functionalization of Surfaces Using Polymer Brushes; Polymer Brushes by ATRP and Surface-Mediated RAFT Polymerization for Biological Functions; Electro-Induced Copper Catalyzed Surface Modification with Monolayer and Polymer Brush; Polymer Brushes on Flat and Curved Substrates; Biomimetic Anchors for Antifouling Polymer Brush Coating; Glycopolymers Presenting Sugars in Their Natural Form; Smart Surfaces Modified with Phenylboronic Acid-Containing Polymer Brushes; DNA Brushes; Polymer Brushes as Interfacial Materials for Soft Metal Conductors and Electronics; and more. Presents a comprehensive theory/simulation section that will be valuable for all readers Includes chapters not only on the biological applications of polymer brushes but also on biological systems that resemble polymer brushes on flat surfaces Addresses applications in coatings, friction, sensors, microelectromechanical systems, and biomaterials Devotes particular attention to the functional aspects of hybrid nanomaterials employing polymer brushes as functional units* *Polymer and Biopolymer Brushes: Fundamentals and Applications in Materials* is aimed at both graduate students and researchers new to this subject as well as scientists already engaged in the study and development of polymer brushes.

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Who is Who in Thermal Analysis and Calorimetry

Springer This is an expanded and revised second edition, presenting accurate and comprehensive information about our leading thermal scientists to current and future generations. In our globalized world, most researchers in thermal analysis do not know each other in person and are not familiar with each other's achievements. This volume provides the reader with an up-to-date list of the prominent members in this community. The publication contains only living scientists. The selection is based partly on several decades of the editors' personal professional experience and also partly on the opinion of the Regional Editors of the Journal of Thermal Analysis and Calorimetry.

Rosin-based Chemicals and Polymers

Smithers Rapra Rosin is an abundantly available natural product composed of around 90% acidic and 10% neutral compounds. Rosin and its derivatives have long been used as tackifiers in adhesives. They have also found other niche applications in inks, varnishes, paints, sealing wax, some soaps, paper sizing; soldering, plasters, food additives, etc. However, many of the conventional applications of rosin mainly utilize the inherent physical properties in various practices. In recent years there has been a growing interest in using rosin acid-derivatives as building blocks in the synthesis of polyesters, polyurethanes, epoxies and curing agents. In addition, rosin acid derived chemicals are also used as nucleating agents, surfactants, drugs and other special applications. This book brings together a collection of scientific articles on recent research and development of utilizing natural chemicals from pine resin as feedstock for polymers and new industrial chemicals. It focuses mainly on the new use of rosin acids, but also covers the applications of other chemicals from tree sap such as terpenenes. This book will provide considerable material for researchers in both academia and industry with the latest developments in the utilization of rosin and terpenenes.

Bio-Based Polymers for Engineered Green Materials

MDPI With daily signals, Nature is communicating us that its unconscious wicked exploitation is no more sustainable. Our socio-economic system focuses on production increasing without considering the consequences. We are intoxicating ourselves on a daily bases just to allow the system to perpetuate itself. The time to switch into more natural solutions is come and the scientific community is ready to offer more natural product with comparable performance then the market products we are used to deal with. This book collects a broad set of scientific examples in which research groups from all over the world, aim to replace fossil fuel-based solutions with biomass derived materials. In here, some of the most innovative developments in the field of bio-materials are reported considering topics which goes from biomass valorization to the synthesis of high performing bio-based materials.

Alkenes—Advances in Research and Application: 2013 Edition

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Understanding Soft Condensed Matter via Modeling and Computation

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Polymer Science and Innovative Applications Materials, Techniques, and Future Developments

Elsevier Polymer Science and Innovative Applications: Materials, Techniques, and Future Developments introduces the science of innovative polymers and composites, their analysis via experimental techniques and simulation, and their utilization in a variety of application areas. This approach helps to unlock the potential of new materials for product design and other uses. The book also examines the role that these applications play in the human world, from pollution and health impacts, to their potential to make a positive contribution in areas including environmental remediation, medicine and healthcare, and renewable energy. Advantages, disadvantages, possibilities, and challenges relating to the utilization of polymers in human society are included. Presents the latest advanced applications of polymers and their composites and identifies key areas for future development Introduces the simulation methods and experimental techniques involved in the modification of polymer properties, supported by clear and detailed images and diagrams Supports an interdisciplinary approach, enabling readers across different fields to harness the power of new materials for innovative applications

Synthesis of Novel Hydrogels with Unique Mechanical Properties

Frontiers Media SA

Protein Precursors: Advances in Research and Application: 2011 Edition

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Proceedings of 4th Edition of International Conference on POLYMER SCIENCE AND TECHNOLOGY 2018

Journal of Polymer Sciences : Volume 4

EuroScicon June 04-05, 2018 London, UK Key Topics : Polymer Science -The Future, Polymers In Industries, Polymer Material Science, Polymer Engineering, Polymer Nanotechnology, Polymer Chemistry, Composite Polymeric Material, Advanced Polymers, Role Of Polymers In Biology And Biological Systems, Polymer Physics, Bioplastics And Biopolymers, Applications Of Polymer Materials, Polymers In Wastes And Their Environmental Impact,

Conducting Polymers for Advanced Energy Applications

CRC Press This book details the use of conducting polymers and their composites in supercapacitors, batteries, photovoltaics, and fuel cells, nearly covering the entire spectrum of energy area under one title. Conducting Polymers for Advanced Energy Applications covers a range of advanced materials based on conducting polymers, the fundamentals, and the chemistry behind these materials for energy applications. FEATURES Covers materials, chemistry, various synthesis approaches, and the properties of conducting polymers and their composites Discusses commercialization and markets and elaborates on advanced applications Presents an overview and the advantages of using conducting polymers and their composites for advanced energy applications Describes a variety of nanocomposites, including metal oxides, chalcogenides, graphene, and materials beyond graphene Offers the fundamentals of electrochemical behavior This book provides a new direction for scientists, researchers, and students in materials science and polymer chemistry who seek to better understand the chemistry behind conducting polymers and improve their performance for use in advanced energy applications.

Pillararenes

Royal Society of Chemistry First reported in 2008, Pillararenes are a new class of macrocyclic hosts consisting of hydroquinone units linked at the para-position. With a composition similar to cucurbiturils and calixarenes, they combine the advantages and aspects of traditional hosts and have applications in sensing, material synthesis and biomedicine. Pillararenes starts with the historical background of macrocyclic compounds and then following chapters cover the synthesis of pillararenes, their structures, conformations and planar chirality. Dedicated chapters then cover their host-guest properties and supramolecular assemblies based on pillararenes including supramolecular polymers and mechanically interlocked molecules. Edited by the leader in the field, this is the first book to cover pillararenes and will appeal to graduate students, researchers and academics in supramolecular chemistry, organic chemistry, polymer chemistry and materials science interested in the chemistry and applications of pillararenes.

Polymer Crystallization I

From Chain Microstructure to Processing

Springer The series Advances in Polymer Science presents critical reviews of the present and future trends in polymer and biopolymer science. It covers all areas of research in polymer and biopolymer science including chemistry, physical chemistry, physics, material science. The thematic volumes are addressed to scientists, whether at universities or in industry, who wish to keep abreast of the important advances in the covered topics. Advances in Polymer Science enjoys a longstanding tradition and good reputation in its community. Each volume is dedicated to a current topic, and each review critically surveys one aspect of that topic, to place it within the context of the volume. The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically, presenting selected examples, explaining and illustrating the important principles, and bringing together many important references of primary literature. On that basis, future research directions in the area can be discussed. Advances in Polymer Science volumes thus are important references for every polymer scientist, as well as for other scientists interested in polymer science - as an introduction to a neighboring field, or as a compilation of detailed information for the specialist. Review articles for the individual volumes are invited by the volume editors. Single contributions can be specially commissioned. Readership: Polymer scientists, or scientists in related fields interested in polymer and biopolymer science, at universities or in industry, graduate students

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API Polyurethanes Expo 2001

CRC Press This book contains papers presented in various technical sessions at the Polyurethanes Expo 2001 conference held between September 30-October 3, 2001 at Greater Columbus Convention Center, Columbus, Ohio.

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