

DEVELOPMENTS
SERIES

Developments in Ionic Polymers – 2

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Developments In Ionic Polymers

Norio Ise, Ikuo Sogami



Developments In Ionic Polymers:

Developments in Ionic Polymers—2 A.D. Wilson, Prosser, 2012-12-06 Ionic polymers like elephants are easier to recognise than to define Several methods of classification have been attempted but none is wholly satisfactory because of the extreme diversity of ionic polymers which range from the organic water soluble polyelectrolytes through hydrogels and ionomer carboxylate rubbers to the almost infusible inorganic silicate minerals For this reason a general classification is not only difficult but has minimal utility However there are some characteristics of these materials that should be highlighted The role of counterions is the significant one These ions either singly or as clusters take part in the formation of ionic bonds which have a varying structural role Often they act as crosslinks but in the halato polymers the ionic bonds form an integral part of the polymer backbone itself Conversely in polymers containing covalent crosslinks such as the ion exchange resins the counterions have virtually no structural role to play since they dwell in cage like structures without affecting the crosslinking and are readily exchanged They are perhaps best described as ion containing polymers rather than structural ionic polymers Another crucial factor is the role of water in ionic polymers The presence of ionic bonds means that there is a tendency for these materials to interact with water Where the ionic polymer contains a high proportion of ionic units it acts as a hydrogel and may be highly soluble Such interactions with water decrease sharply as the ionic content is reduced though even then water can act as a plasticiser

Developments in Ionic Polymers—2 A.D. Wilson, Prosser, 1986-07-31 Ionic polymers like elephants are easier to recognise than to define Several methods of classification have been attempted but none is wholly satisfactory because of the extreme diversity of ionic polymers which range from the organic water soluble polyelectrolytes through hydrogels and ionomer carboxylate rubbers to the almost infusible inorganic silicate minerals For this reason a general classification is not only difficult but has minimal utility However there are some characteristics of these materials that should be highlighted The role of counterions is the significant one These ions either singly or as clusters take part in the formation of ionic bonds which have a varying structural role Often they act as crosslinks but in the halato polymers the ionic bonds form an integral part of the polymer backbone itself Conversely in polymers containing covalent crosslinks such as the ion exchange resins the counterions have virtually no structural role to play since they dwell in cage like structures without affecting the crosslinking and are readily exchanged They are perhaps best described as ion containing polymers rather than structural ionic polymers Another crucial factor is the role of water in ionic polymers The presence of ionic bonds means that there is a tendency for these materials to interact with water Where the ionic polymer contains a high proportion of ionic units it acts as a hydrogel and may be highly soluble Such interactions with water decrease sharply as the ionic content is reduced though even then water can act as a plasticiser

Developments in Ionic Polymers Alan D. Wilson, Harvard J. Prosser, 1986 *Developments in Ionic Polymers*, 1983 New Trends in Ionic (Co)polymers and Hybrids Ecaterina Stela Dragan, 2007 Ionic polymers are present almost everywhere in the world biological

systems being the most important reservoir of ionic polymers such as nucleic acids and many proteins alginic acid and so on Artificial ionic polymers derived from natural polymers such as chitin cellulose or starch by adequate chemical transformations and a multitude of synthetic ionic polymers are generated in the laboratory They can contain ionic or ionisable groups Ionic polymers either artificial or synthetic have a multitude of applications such as stabilisation or destabilisation of dispersions thickening of solutions oil recovery aids water purification corrosion inhibitors soil conditioners anti static agents additives in cosmetics and foods surface modification and so forth Solid ionic hybrid materials found applications such as polymer electrolytes or substrates for the organic synthesis in solid phase Many books and article reviews were dedicated to this wide class of polymers but the permanent diversification of their structures and applications ask for new and updated overviews on this field Therefore this book reports updated information from literature as well as original contributions in the field of ionic co polymers and hybrids mainly on the applications of ionic polymers and hybrids such as self assembled multi layers ionic polymers containing azobenzene chromophore phase separation processes chelating ion exchangers polymer electrolytes functionalised solid surfaces and ionic hybrid hydrogels

The Research Development on Molecular Engineering of Polymers Jia Guo,Guosong Chen,Jianfeng Li,Huisheng Peng,2026-03-13 This book provides a description on polymer science and technology ranging from polymer chemistry polymer physics to polymers for energy storage and conversion and polymer processing All the authors contributing to the book are the faculty members of the Department of Macromolecular Science Fudan University They are scholars and experts who have established themselves in their own fields respectively The topics selected in this book are used to summarize significant contributions to chemistry and material communities of the department in the past decade The book not only presents cutting edge fields such as precise protein self assembly glycochemical biology fiber polymer battery and energy transduction but also provides insights into the basic theoretical investigation and applications such as phase field self consistent field and polymer condensed physics Moreover this book illustrates the research paradigm of molecular engineering of polymers by highlighting the research progress at Fudan University as an example of the rapid developments in polymer science in China Also this book is a celebration of the 30th anniversary of the Department of Macromolecular Science Given its scope this book appeals to a broad readership especially for students and researchers engaged in polymer science and technology who can benefit from the polymer related theory experiments applications and engineering

Ionic Polymerization and Living Polymers M. Szwarc,M. van Beylen,2012-12-06 More than simply an up to date review of ionic polymerization this book presents an in depth and critical comparison of the anionic and cationic polymerization of vinyl monomers and heterocyclic compounds These different modes of ionic polymerization are examined with regard to their capacity for producing living polymers The concept of living polymers is re examined and redefined in light of current knowledge of ionic polymerization and possible side reactions Throughout the authors offer perceptive insights into the basic concepts of polymerization

chemistry and polymerization reaction mechanisms The book begins with a review of ionic and radical polymerizations the development of ionic polymerization living and dormant polymers and polymerizability It goes on to consider important aspects of the structure and properties of ionic species initiation and propagation of ionic polymerization polymerization steps other than initiation or propagation such as termination isomerization transfer backbiting and degradation and ionic copolymerization Ionic Polymerization and Living Polymers is a much needed advanced text that will be widely read and referred to by polymer scientists macromolecular chemists and materials scientists

Insights In Biomaterials 2022 / 2023 - Novel Developments, Current Challenges, and Future Perspectives Hasan Uludag, Yunbing Wang, Nihal Engin Vrana, Candan Tamerler, Chandra Kothapalli, Milana C. Vasudev, 2024-03-04

Structure Formation in Solution Norio Ise, Ikuo Sogami, 2005-11-10 This book is designed to critically review experimental findings on ionic polymers and colloidal particles and to prove a theoretical framework based on the Poisson Boltzmann approach Structure formation in ionic polymer solutions has attracted attention since the days of H Staudinger and J D Bernal An independent study on ionic colloidal dispersions with microscopy provided a compelling evidence of structure formation Recent technical developments have made it possible to accumulate relevant information for both ionic polymers and colloidal particles in dilute systems The outstanding phenomenon experimentally found is microscopic inhomogeneity in the solute distribution in macroscopically homogeneous systems To account for the observation the present authors have invoked the existence of the counterion mediated attraction between similarly charged solute species in addition to the widely accepted electrostatic repulsion

Recent Advances in Polymer Nanocomposites: Synthesis and Characterisation Sabu Thomas, Gennady Zaikov, Valsaraj, Meera, 2010-08-03 This book examines the current state of the art new challenges opportunities and applications in the area of polymer nanocomposites Special attention has been paid to the processing morphology structure property relationship of the system Various unresolved issues and new challenges in the field of polymer nanocomposites are discussed The infl

Advances in Manufacturing and Processing of Materials and Structures Yoseph Bar-Cohen, 2018-09-03 Advances in Manufacturing and Processing of Materials and Structures cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes It is intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures A key development incorporated within this book is 3D printing which is being used to produce complex parts including composites with odd shape fibers as well as tissue and body organs This book has been tailored for engineers scientists and practitioners in different fields such as aerospace mechanical engineering materials science and biomedicine Biomimetic principles have also been integrated Features Provides the latest state of the art on different manufacturing processes including a biomimetics viewpoint Offers broad coverage of advances in materials and manufacturing Written by chapter authors who are world class researchers in their respective fields Provides in depth presentation of the latest 3D and

4D technologies related to various manufacturing disciplines Provides substantial references in each chapter to enhance further study

Advances in Dielectric Elastomer Composites Masoud Asgari, Marzie Majidi, 2025-03-25 This is a comprehensive guide to dielectric elastomer composites DECs which play an integral role in new electromechanically active smart material technologies Introducing the basic concepts behind DECs the book is accessible to readers at all levels It demonstrates how to implement practical problem solving methods through nonlinear continuum mechanics and also discusses fiber reinforced anisotropic DE composites and the electromechanically coupled behavior of anisotropic fiber reinforced DEs Using practical examples throughout it proposes models which utilize the strain energy function nonlinear electro elasticity and nonlinear continuum mechanics It presents clear guidelines for creating practical nonlinear finite element code and introduces the reader to hyperelasticity The book will be an accessible reference guide for students researchers and engineers in the field of mechanical engineering bioengineering materials science aeronautics and robotics

Recent Advances in Environmentally Compatible Polymers J F Kennedy, Glyn O. Phillips, Peter A. Williams, 2001-10-26 The book offers a comprehensive overview of research undertaken in all aspects of environmentally compatible polymers

Developments in Inorganic Polymer Chemistry M. F. Lappert, G. J. Leigh, 1962

Advances in Energy Harvesting Methods Niell Elvin, Alper Erturk, 2013-02-15 Advances in Energy Harvesting Methods presents a state of the art understanding of diverse aspects of energy harvesting with a focus on broadband energy conversion new concepts in electronic circuits and novel materials This book covers recent advances in energy harvesting using different transduction mechanisms these include methods of performance enhancement using nonlinear effects non harmonic forms of excitation and non resonant energy harvesting fluidic energy harvesting and advances in both low power electronics as well as material science The contributors include a brief literature review of prior research with each chapter for further reference

Ionic Polymers Leslie Holliday, 1975

Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 20 Sooraj Hussain Nandyala, 2014-06-06 This volume of the Journal of Biomimetics Biomaterials and Biomedical Engineering covers topical issue of biomimetic approach to the development of modern means of a wide range of industrial applications the new solutions in the field of biomedical engineering and of pharmacological practice and also illuminates the results of the latest solutions in the field of development of biomaterials and their application

Development and Processing of Pyrrone Polymers L. E. Karre, L. B. Keller, L. J. Miller, 1969

Multiphase Polymers L. A. Utracki, 1989

PROPERTIES POLYMERS 3RD COMPL.REV. Dirk Willem Krevelen, 1990-12-17 Hardbound As a source of data and for estimations of properties to be expected this book is now widely used all over the world This Third Edition is thoroughly revised and updated Its objectives as for the previous two editions are to correlate properties with chemical structure and to describe methods that permit the estimation and prediction of numerical properties from chemical structure i e nearly all properties of the solid liquid and dissolved states of polymers New are chapters and sub chapters discussing extended chain polymers liquid crystal polymers

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