

Supramolecular Polymers

Emilie Sanchez

Supramolecular Polymers:

Supramolecular Polymers and Assemblies Ulrich S. Schubert, George R. Newkome, Andreas Winter, 2021-02-22 Explore modern characterization methods and new applications in this modern overview of supramolecular polymer chemistry Supramolecular Polymers and Assemblies From Synthesis to Properties and Applications delivers a superlative summary and description of general concepts and definitions in the field The book offers informative and accessible treatments of crucial concepts like metal containing compounds hydrogen bonding ionic interactions pi pi stacking and more Characterization remains a primary focus of the book throughout making it extremely useful for practitioners in the field Emphasis is also placed on metallo supramolecular polymers and materials which have found applications in areas like smart or intelligent materials and systems with special photochemical and photophysical properties like LEDs and solar cells Applications including self healing materials opto electronics sensing and catalysis are all discussed as well The book details many of the exciting developments in the field of supramolecular chemistry that have occurred since the 1987 Nobel Prize was awarded to pioneers in this rapidly developing field Readers will also benefit from the inclusion of A thorough introduction to supramolecular assemblies based on ionic interactions Explorations of supramolecular polymers based on hydrogen bonding interactions metal to ligand interactions p Electronic interactions crown ether recognition cucurbiturils and host guest chemistry of calixarenes A discussion of cyclodextrins in the field of supramolecular polymers Examinations of supramolecular polymers based on the host guest chemistry of pillarenes and those formed by orthogonal non covalent interactions A treatment of the characterization of supramolecular polymers Supramolecular Polymers and Assemblies From Synthesis to Properties and Applications will earn a place in the libraries of researchers and practitioners of the material science as well as polymer chemists seeding a one stop reference for supramolecular polymers Supramolecular **Polymer Chemistry** Akira Harada, 2012-01-10 Presenting the work of pioneering experts in this exciting field of supramolecular polymer chemistry this monograph covers an extensive range of applications including drug delivery and catalysis It focuses on new structures and phenomena of cyclodextrin based supramolecular polymers and many other compound classes While providing a deeper insight in macromolecular recognition and the mechanisms of living systems this book also introduces fascinating novel phenomena beyond natural systems Supramolecular Polymers Alberto Ciferri, 2000-05-04 Focuses on detailed analysis of the formation and properties of linear planar and three dimensional polymer assemblies stabilized by superamolecular interactions includes examples of covalently bonded polymers exhibiting novel supra molecular effects Clarifies the theoretical basis for the self assembly of structures Macromolecules Containing Metal and Metal-Like Elements, Volume 5 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Ir., Martel Zeldin, 2005-07-08 This series provides a useful applications oriented forum for the next generation of macromolecules and materials The fifth volume in this series provides useful descriptions of the transition metals and their

applications Transition Metals are covered in 2 volumes the second part is covered in Volume 6 **Handbook of Advanced** Electronic and Photonic Materials and Devices, Ten-Volume Set Hari Singh Nalwa, 2000-10-09 Vol 1 Semiconductors Vol 2 Semiconductors Devices Vol 3 High Tc Superconductors and Organic Conductors Vol 4 Ferroelectrics and Dielectrics Vol 5 Chalcogenide Glasses and Sol Gel Materials Vol 6 Nanostructured Materials Vol 7 Liquid Crystals Display and Laser Materials Vol 8 Conducting Polymers Vol 9 Nonlinear Optical Materials Volume 10 Light Emitting Diodes Lithium Batteries **Polymer Science: A Comprehensive Reference**, 2012-12-05 The progress in polymer science is and Polymer Devices 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 Supramolecular Polymers/Polymeric Betains/Oligomers Akihiro Abe, 2006-06-22 This volume represents the Highest Impact Factor of all journals ranked by ISI within Polymer Science It contains short and concise reports on physics and chemistry of polymers each written by the world renowned experts The information remains valid and useful after five or ten years The electronic version is available free of charge for standing order customers at springer com series 12 *Metallo-Supramolecular Polymers* Masayoshi Higuchi, 2019-11-12 This book introduces the synthesis electrochemical and photochemical properties and device applications of metallo supramolecular polymers new kinds of polymers synthesized by the complexation of metal ions and organic ditopic ligands Their electrochemical and photochemical properties are also interesting and much different from conventional organic polymers. The properties come from the electronic intra chain interaction between the metal ions and the ligands in the polymer chain In this book for example the electrochromism that the Fe II based metallo supramolecular polymer exhibits is described the blue color of the polymer film disappears by the electrochemical oxidation of Fe II ions to Fe III and the colorless film becomes blue again by the electrochemical reduction of Fe III to Fe II The electrochromism is explained by the disappearance appearance of the metal to ligand charge transfer absorption The electrochromic properties are applicable to display devices such as electronic paper and smart windows

Supramolecular Polymers, Second Edition Alberto Ciferri, 2005-04-26 Supramolecular Polymers Second Edition details assembly processes and structure function correlation in natural and synthetic self assembling materials focusing on developments occurred over the past five years The book highlights developments in the synthesis of complex structures chemical design principles and theoretical models of growth processes resulting in an increasingly accurate prediction of stability degree of polymerization and shape of various assemblies It focuses on the rich variety of properties functions and applications of self assembling supramolecular polymers Supramolecular Polymers Second Edition ties together potential applications such as those of nanostructures with dynamic combinatorial adaptive self healing features opto electronic devices supramolecular amphiphiles hydrogels organic inorganic nanocomposites molecular biosensors molecular imprinting molecular engines templates for superlattices with prescribed symmetry Several chapters of the first edition have been updated or rewritten and an equal number of new chapters have been added More than 500 drawings photographs micrographs equations and tables enhance and reinforce essential concepts presented in the book Authored by an expert in polymer mechanics biopolymers liquid crystals and supramolecular assemblies Supramolecular Polymers Second Edition emphasizes fundamental principles at the basis of bottom up nanotechnology chemical design strategies and exciting

applications for various self assembling materials for a unified and cutting edge account of the field **Synthesis of Polymers** Dieter A. Schlüter, Craig Hawker, Junji Sakamoto, 2012-05-14 Polymers are huge macromolecules composed of repeating structural units While polymer in popular usage suggests plastic the term actually refers to a large class of natural and synthetic materials Due to the extraordinary range of properties accessible polymers have come to play an essential and ubiquitous role in everyday life from plastics and elastomers on the one hand to natural biopolymers such as DNA and proteins on the other hand The study of polymer science begins with understanding the methods in which these materials are synthesized Polymer synthesis is a complex procedure and can take place in a variety of ways This book brings together the Who is who of polymer science to give the readers an overview of the large field of polymer synthesis It is a one stop reference and a must have for all Chemists Polymer Chemists Chemists in Industry and Materials Scientists

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