

N. Ise
I. S. Sogami

Structure Formation in Solution

Ionic Polymers and Colloidal Particles



Springer

Structure Formation In Solution Ionic Polymers And Colloidal Particles

Dan F. Anghel



Structure Formation In Solution Ionic Polymers And Colloidal Particles:

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

Interface Science and Composites Soo-Jin Park, Min-Kang Seo, 2011-07-18 The goal of Interface Science and Composites is to facilitate the manufacture of technological materials with optimized properties on the basis of a comprehensive understanding of the molecular structure of interfaces and their resulting influence on composite materials processes From the early development of composites of various natures the optimization of the interface has been of major importance While there are many reference books available on composites few deal specifically with the science and mechanics of the interface of materials and composites Further many recent advances in composite interfaces are scattered across the literature and are here assembled in a readily accessible form bringing together recent developments in the field both from the materials science and mechanics perspective in a single convenient volume The central theme of the book is tailoring the interface science of composites to optimize the basic physical principles rather than on the use of materials and the mechanical performance and structural integrity of composites with enhanced strength stiffness and fracture toughness or specific fracture resistance It also deals mainly with interfaces in advanced composites made from high performance fibers such as glass carbon aramid and some inorganic fibers and matrix materials encompassing polymers carbon metals alloys and ceramics Includes chapter on the development of a nanolevel dispersion of graphene particles in a polymer matrix Focus on tailoring the interface science of composites to optimize the basic physical principles Covers mainly interfaces in advanced composites made from high performance fibers

Mass Spectrometry in Polymer Chemistry Christopher Barner-Kowollik, Till Gruendling, Jana Falkenhagen, Steffen Weidner, 2012-01-27 Combining an up to date insight into mass spectrometric polymer analysis beyond MALDI with application details of the instrumentation this is a balanced and thorough presentation of the most important and widely used mass spectrometric methods Written by the world's most proficient experts in the field the book focuses on the latest developments covering such technologies and applications as ionization protocols tandem and liquid chromatography mass spectrometry gas phase ion separation techniques and automated data processing Chapters on sample preparation polymer degradation and the usage of mass

spectrometric tools on an industrial scale round off the book As a result both entrants to the field and experienced researchers are able to choose the appropriate methods and instrumentations and to assess their respective strengths and limitations for the characterization of polymer compounds

Polyoxometalate Chemistry Francis Secheresse, 2013 The book highlights recent prominent results in the domain of the synthesis of new polyoxometalates with a specific attention to polyoxothioanions and provides some novelties and perspectives in selected domains such as magnetism luminescence and nanochemistry and macroions self assembly in solutions The case of OC one pot OCO syntheses often used and reported in POMs synthesis is studied in terms of more complex solution speciation processes related to highly dynamical situation connected to factors such as pH ionic strength reaction time temperature counterion nature concentration of starting materials presence of electron donors and redox potentials The behavior of macroions 2nm 6nm size range in solution is shown to be quite different from the simple ionic solution or colloidal systems Debye-Hückel model Their self assembling into a single layered spherical hollow vesicle structure namely the OC blackberry OCO structure is clearly described Examples of spin clusters with tunable interactions are given and single molecule magnets based on POMs are specifically tackled Besides paramagnetic transition metal centres and lanthanoid ions encapsulated in archetypal lacunary polyoxoanions magnetically functionalized Kleperates are described their discovery tracing back nearly 15 years

Colloidal Self-Assembly Junpei Yamanaka, Tohru Okuzono, Akiko Toyotama, 2023-10-03 This concise book covers fundamental principles of colloidal self assembly and overviews of basic and applied research in this field with abundant illustrations and photographs Experimental and computer simulation methods to study the colloidal self assembly are demonstrated Complementary videos Visual Guide to Study Colloidal Self Assembly on the research procedures and assembly processes are available via SpringerLink to support learning The book explains basic elements of mechanics and electromagnetism required to study the colloidal self assembly so that graduate students of chemistry and engineering courses can learn the contents on their own It reviews important research topics including the authors works on the colloidal self assembly of more than 30 years work The principal topics include 1 crystallization of colloidal dispersions with the emphasis on the role of surface charges 2 fabrication of large and high quality colloidal crystals by applying controlled growth methods 3 association and crystallization by depletion attraction in the presence of polymers 4 clustering of colloidal particles especially those in oppositely charged systems and 5 two dimensional colloidal crystals Furthermore it covers 6 applications of colloidal crystals ranging from cosmetics to sensing materials We also describe space experiments on colloidal self assembly in the International Space Station This book will interest graduate school students in colloid and polymer science pharmaceuticals soft matter physics material sciences and chemical engineering courses It will also be a useful guide for individuals in academia and industry undertaking research in this field

Inorganic Nanosheets and Nanosheet-Based Materials Teruyuki Nakato, Jun Kawamata, Shinsuke Takagi, 2017-04-18 This book focuses on inorganic nanosheets including various oxides

chalcogenides and graphenes that provide two dimensional 2D media to develop materials chemistry in broad fields such as electronics photonics environmental science and biology The application area of nanosheets and nanosheet based materials covers the analytical photochemical optical biological energetic and environmental research fields All of these applications come from the low dimensionality of the nanosheets which anisotropically regulate structures of solids microspaces and fluids Understanding nanosheets from chemical structural and application aspects in relation to their fully nanoscopic characters will help materials scientists to develop novel advanced materials This is the first book that accurately and concisely summarizes this field including exfoliation and intercalation chemistries of layered crystals The book provides perspective on the materials chemistry of inorganic nanosheets The first section describes fundamental aspects of nanosheets common to diverse applications how unique structures and properties are obtained from nanosheets based on low dimensionality The second section presents state of the art descriptions of how the 2D nature of nanosheets is utilized in each application of the materials that are developed *Proceedings of the Japan Academy Nihon Gakushiiin*,2007

TECHNEAU Christian Kazner,2009-06-14 The best papers from the three day conference on Safe Drinking Water from Source to Tap June 2009 in Maastricht are published in this book covering the themes of challenges of the water sector and adaptive strategies treatment distribution risk assessment and risk management sensors and monitoring small scale systems simulation alternative water supply sources consumer involvement and future drinking water Worldwide the water supply sector is facing tremendous challenges Every new emerging contaminants and pathogens and aging infrastructures that are vulnerable for deliberate contamination pose a threat to the quality of water supplies Shortage of good quality and readily treatable resources is increasing due to global warming urbanisation and pollution from agriculture and industry Regulators and consumers are becoming more demanding Techneau the largest European project on drinking water addresses these challenges by developing adaptive supply system options and new and improved treatment and monitoring technologies Future system options to be studied are flexible small scale and multi source supplies utilising non conventional resources like brackish ground water treated wastewater and urban groundwater *Handbook Of Green Materials: Processing Technologies, Properties And Applications (In 4 Volumes)* Kristiina Oksman,Aji P Mathew,Alexander Bismarck,Orlando Rojas,Mohini Sain,2014-04-11 Green materials and green nanotechnology have gained widespread interest over the last 15 years first in academia then in related industries in the last few years The Handbook of Green Materials serves as reference literature for undergraduates and graduates studying materials science and engineering composite materials chemical engineering bioengineering and materials physics and for researchers professional engineers and consultants from polymer or forest industries who encounter biobased nanomaterials bionanocomposites self and direct assembled nanostructures and green composite materials in their lines of work This four volume set contains material ranging from basic background information on the fields discussed to reports on the latest research and industrial activities and finally the works by

contributing authors who are prominent experts of the subjects they address in this set The four volumes comprise of The first volume explains the structure of cellulose different sources of raw material the isolation separation processes of nanomaterials from different material sources and properties and characteristics of cellulose nanofibers and nanocrystals starch nanomaterials Information on the different characterization methods and the most important properties of biobased nanomaterials are also covered The industrial point of view regarding both the processability and access of these nanomaterials as well as large scale manufacturing and their industrial application is discussed particularly in relation to the case of the paper industry The second volume expounds on different bionanocomposites based on cellulose nanofibers or nanocrystals and their preparation manufacturing processes It also provides information on different characterization methods and the most important properties of bionanocomposites as well as techniques of modeling the mechanical properties of nanocomposites This volume presents the industrial point of view regarding large scale manufacturing and their applications from the perspective of their medical uses in printed electronics and in adhesives The third volume deals with the ability of bionanomaterials to self assemble in either liquids or forming organized solid materials The chemistry of cellulose nanomaterials and chemical modifications as well as different assembling techniques and used characterization methods and the most important properties which can be achieved by self assembly are described The chapters for example discuss subjects such as ultra light biobased aerogels based on cellulose and chitin thin films suitable as barrier layers self sensing nanomaterials and membranes for water purification The fourth volume reviews green composite materials including green raw materials such as biobased carbon fibers regenerated cellulose fibers and thermoplastic and thermoset polymers e g PLA bio based polyolefines polysaccharide polymers natural rubber bio based polyurethane lignin polymer and furfurylalcohol The most important composite processing technologies are described including prepreps of green composites compounding liquid composite molding foaming and compression molding Industrial applications especially for green transportation and the electronics industry are also described This four volume set is a must have for anyone keen to acquire knowledge on novel bionanomaterials including structure property correlations isolation and purification processes of nanofibers and nanocrystals their important characteristics processing technologies industrial up scaling and suitable industry applications The handbook is a useful reference not only for teaching activities but also for researchers who are working in this field

Pharmaceutical Amorphous Solid Dispersions Ann Newman, 2015-02-27 Providing a roadmap from early to late stages of drug development this book overviews amorphous solid dispersion technology a leading platform to deliver poorly water soluble drugs a major hurdle in today s pharmaceutical industry Helps readers understand amorphous solid dispersions and apply techniques to particular pharmaceutical systems Covers physical and chemical properties screening scale up formulation drug product manufacture intellectual property and regulatory considerations Has an appendix with structure and property information for polymers commonly used in drug development and with marketed

drugs developed using the amorphous solid dispersion approach Addresses global regulatory issues including USA regulations ICH guidelines and patent concerns around the world Electromagnetic Wave Absorption and Shielding Materials Wei Lu,Hongtao Guan,2024-07-12 This book reveals the latest research findings and innovations in electromagnetic wave absorption and shielding by exploring the design and application of absorbent materials the optimization of shielding structures and the improvement of testing and evaluation methods From conductive materials to magnetic materials and composite materials to nanomaterials Electromagnetic Wave Absorption and Shielding Materials details the characteristics and advantages of various absorbent materials and explains their applications in electromagnetic wave absorption and shielding It then introduces the different methods of electromagnetic shielding including structural shielding and material shielding The book also studies experimental and testing techniques including measurement methods and evaluation criteria for electromagnetic wave absorption performance The book will be of interest to researchers and graduate students in electromagnetic compatibility materials science and engineering Evaporative Self-assembly Of Ordered Complex Structures Zhiqun Lin,2012-02-28 The use of spontaneous self assembly as a lithographic tool and as an external field free means to construct well ordered and intriguing patterns has received much attention due to its ease of producing complex large scale structures with small feature sizes An extremely simple route to highly ordered complex structures is the evaporative self assembly of nonvolatile solutes e g polymers nanoparticles carbon nanotubes and DNA from a sessile droplet on a solid substrate To date a few studies have elegantly demonstrated that self organized nanoscale microscale and hierarchically structured patterns have been readily obtained from sophisticated control of droplet evaporation These include convective assembly in evaporating menisci the alignment of nanomaterials by programmed dip coating and controlled anisotropic wetting dewetting processes facile microstructuring of functional polymers by the Breath Figure method controlled evaporative self assembly in confined geometries etc This book is unique in this regard in providing a wide spectrum of recent experimental and theoretical advances in evaporative self assembly techniques The ability to engineer an evaporative self assembly process that yields a broad range of complex well ordered and intriguing structures with small feature sizes composed of polymers of nanocrystals of different size and shapes as well as DNA over large areas offers tremendous potential for applications in electronics optoelectronics photonics sensors information processing and data storage devices nanotechnology high throughput drug discovery chemical detection combinatorial chemistry and biotechnology Colloidal Biomolecules, Biomaterials, and Biomedical Applications Abdelhamid Elaissari,2003-10-21 Colloidal Biomolecules Biomaterials and Biomedical Applications is an authoritative presentation of established and recent techniques promising to revolutionize the areas of biomedical diagnostics therapeutics pharmaceuticals and drug delivery This exceptional book details an original homogeneous assay for biomolecule detection and capture through duplex colloid particles as well as new methods for utilizing peptides in particle agglutination Featuring contributions from over 30

prominent researchers it investigates physical studies of the agglutination of sensitive latexes and indicates benefits to drug delivery through supercritical fluid process production of polymer particles

Water Pollution and Management

Practices Anita Singh, Madhoolika Agrawal, Shashi Bhushan Agrawal, 2021-04-12 Water pollution is a matter of concern for both developing and developed parts of the world This book presents an overview on water pollution and its sustainable management The book discusses the fundamental aspects of water pollution as well as advanced sustainable technologies for abating water pollution It is a comprehensive collection of information related with water pollutants which are extremely harmful to man other living organisms and to the ecosystems It is all inclusive coverage of technical socio political scientific as well as social issues revolving around water pollution and management The book brings out innovative ideas promoting sustainable technologies and extensively covers the diversity of modern technologies related to prevention of water pollution Book also covers social aspects of water related issues It is an essential reading for upper level graduates and

undergraduates pursuing environmental studies and researchers in the field of waste water management

Chemical Physics of Polymer Nanocomposites Vera V. Myasoedova, Sabu Thomas, Hanna J. Maria, 2024-07-17 Comprehensive knowledge on the preparation characterization and applications of polymer nanocomposites Chemical Physics of Polymer Nanocomposites examines the state of the art in preparation processing characterizing and applying a wide range of polymer nanocomposites elucidating nanofiller polymer interactions nanofiller dispersion distribution filler filler interactions and interface properties with a particular focus on the rheology of this important class of materials The dependence of the rheological properties on the preparation techniques is discussed in detail complemented by an overview of the processing approaches using conventional and micro injection molding extrusion compression molding film blowing pultrusion and resin transfer molding The book covers the latest understanding and accomplishments on polymer composites and presents the huge variety of this materials class Practice oriented with industry relevance it also reviews preparation characterization morphology properties applications sustainability and recyclability The topics covered in Chemical Physics of Polymer Nanocomposites include Classification of nano fillers nano objects nanomaterials and polymer nanocomposites based on chemical nature and identity and synthesis and characterization of nanoparticles General manufacturing methods and processes including melt and shear mixing manufacturing of polymer nanocomposites 1D nano fillers and polymer nanocomposites including polymer nanocomposites based on graphite nanoplatelets GNP and amphiphilic graphene platelets Polymer nanocomposites based on nano chitin starch and lignin gold nanowires titanium dioxide and graphene and graphene oxide Chemical Physics of Polymer Nanocomposites is an essential resource for materials scientists polymer chemists chemical engineers and engineering scientists in industry

Discovering and Developing Molecules with Optimal

Drug-Like Properties Allen C Templeton, Stephen R. Byrn, Roy J Haskell, Thomas E. Prisinzano, 2014-10-31 This authoritative volume provides a contemporary view on the latest research in molecules with optimal drug like properties It is a valuable

source to access current best practices as well as new research techniques and strategies Written by leading scientists in their fields the text consists of fourteen chapters with an underlying theme of early collaborative opportunities between pharmaceutical and discovery sciences The book explores the practical realities of performing physical pharmaceutical and biopharmaceutical research in the context of drug discovery with short timelines and low compound availability Chapters cover strategies and tactics to enable discovery as well as predictive approaches to establish understand and communicate risks in early development It also examines the detection characterization and assessment of risks on the solid state properties of advanced discovery and early development candidates highlighting the link between solid state properties and critical development parameters such as solubility and stability Final chapters center on techniques to improve molecular solubilization and prevent precipitation with particularly emphasis on linking physiochemical properties of molecules to formulation selection in preclinical and clinical settings

Data Evaluation in Light Scattering of Polymers Martin Helmstedt, Klaus Gast, 2000 This book is based on lectures and posters presented at the workshop Data Evaluation in Light Scattering of Polymers held in Bad Schandau Germany The articles cover a broad range of applications including basic research studies on complex polymeric systems as well as routine measurements and provide a survey of novel data evaluation schemes mostly developed during the last decade Additionally this issue contains contributions dealing with novel and or highly specialized light scattering experiments and with the combination of light scattering instruments with other experimental techniques

Modern Biopolymer Science Stefan Kasapis, Ian T. Norton, Johan B Ubbink, 2009-07-21 Industrialists developing new food and pharmaceutical products face the challenge of innovation in an increasingly competitive market that must consider ingredient cost product added value expectations of a healthy life style improved sensory impact controlled delivery of active compounds and last but not least product stability While much work has been done to explore understand and address these issues a gap has emerged between recent advances in fundamental knowledge and its direct application to product situations with a growing need for scientific input Modern Biopolymer Science matches science to application by first acknowledging the differing viewpoints between those working with low solids and those working with high solids and then sharing the expertise of those two camps under a unified framework of materials science Real world utilisation of fundamental science to achieve breakthroughs in product development Includes a wide range of related aspects of low and high solids systems for foods and pharmaceuticals Covers more than biopolymer science in foods by including biopolymer interactions with bioactive compounds issues of importance in drug delivery and medicinal chemistry

Aqueous Polymer — Cosolute Systems Dan F. Anghel, 2003-09-05 This volume is dedicated to Doctor Shuji Saito to commemorate the 50th anniversary of his first paper on polymer surfactant interaction published in the former Kolloid Zeitschrift now called Colloid and Polymer Science It is a collection of papers written by experts who contributed to the progress in this field The papers introduce typical problems associated with systems of nonionic polymers and ionic

surfactants polymers and surfactants of opposite charge charged polymers and nonionic surfactants and of surfactant responsive polymer gels Papers on mixtures of natural polymers and surfactants drugs dyes and other cosolutes are also included The book is an indispensable tool for physical surface polymer and colloid chemists material scientists chemical physicists biochemists and biophysicists and advanced undergraduate and graduate students in these disciplines

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