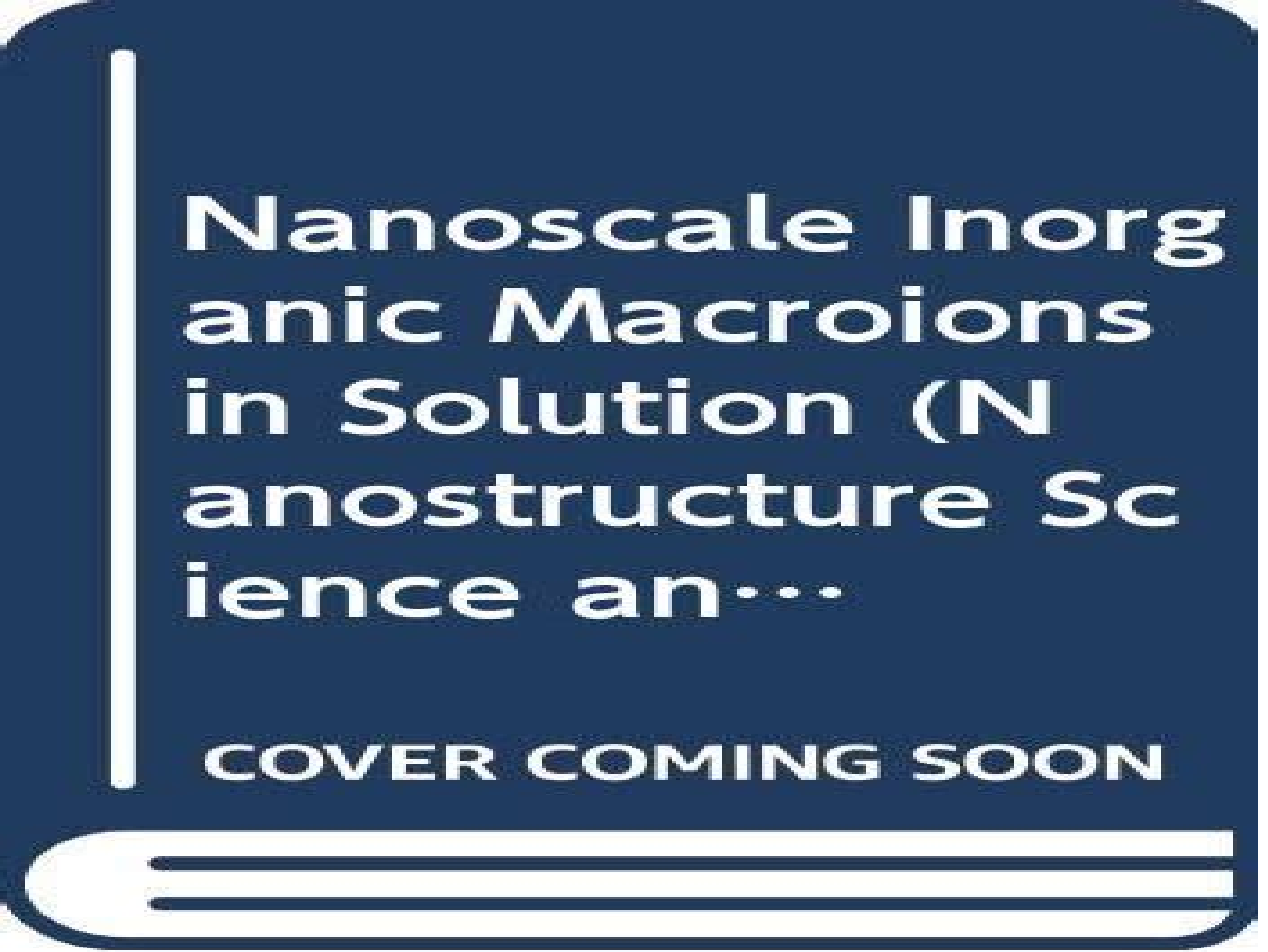
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Peipei Pang

Nanoscale Inorganic Macroions In Solution Nanostructure Science And Technology:

Nanoscale Assembly Wilhelm T.S. Huck,2006-07-11 Nanotechnology has received tremendous interest over the last decade not only from the scientific community but also from a business perspective and from the general public Although nanotechnology is still at the largely unexplored frontier of science it has the potential for extremely exciting technological innovations that will have an enormous impact on areas as diverse as information technology medicine energy supply and probably many others The miniturization of devices and structures will impact the speed of devices and information storage capacity More importantly though nanotechnology should lead to completely new functional devices as nanostructures have fundamentally different physical properties that are governed by quantum effects When nanometer sized features are fabricated in materials that are currently used in electronic magnetic and optical applications quantum behavior will lead to a set of unprecedented properties The interactions of nanostructures with biological materials are largely unexplored Future work in this direction should yield enabling technologies that allows the study and direct manipulation of biological processes at the sub cellular level *Nanoscale structure and assembly at solid-fluid interfaces* Xiang Yang Liu,Jim De Yoreo,2004

Nanoscale Structure and Assembly at Solid-fluid Interfaces Jim De Yoreo,Xiang Yang Liu,2004 **Nanoscale Materials in Chemistry** Kenneth J. Klabunde,2015-11-16 Nanoscale Materials in Chemistry Solution Behaviors of Macroions Driven by Non-covalent Interactions Yunyi Gao,2018 Macroions demonstrate very intriguing solution behaviors that are different from colloids and simple ions due to their intermediate sizes in between Those macroions when carrying moderate surface charge density can self assemble into a spherical hollow singled layered blackberry structures in solution with counterion mediated attraction to be the major driving force Other non covalent forces such as hydrogen bonding and solvophobic interactions are also playing a significant role in directing the solution behaviors of macroions In this dissertation uranyl peroxide nanoclusters are investigated to further explore and expand their unique solution properties as macroions These U60 clusters were proved to be able to distinguish different monovalent counterions and only allow certain counterions to be trapped inside their cages The hydration shell destruction was dominantly contributing to the entropy loss during the ion binding process Such ion selectivity properties can be accurately tuned by changing the incubating temperature of the aqueous environment The U24Pp12 clusters when synthesized with different counterions showed two isomeric structures depending on the orientation of one of the polyhedral faces The transition from a concave ou to a concave in structure was made possible by simply titrating the monovalent counterions into the U24Pp12 solutions The non covalently linked surfactant encapsulated nanoclusters of U60 and different cationic surfactants were found to be able to self assemble into vesicle like structures mimicking the self assembly of those covalently linked POM inorganic hybrids The self assembly and structural transition behaviors are mainly characterized by dynamic light scattering DLS static light scattering SLS and isothermal titration calorimetry ITC **Synthesis and Applications of Inorganic Nanostructures** Huaqiang

Cao,2017-12-26 Authored by a leading figure in the field this book systematically describes all the fundamental aspects and applications of inorganic nanostructures from zero to three dimensions It not only discusses various synthesis technologies but also covers the physical properties of inorganic nanostructures such as optical electric and magnetic properties and practical applications such as energy storage including Li ion and Ni MH batteries and supercapacitors superhydrophobic and bio applications etc The focus throughout is on the synthesis structure application relationships including the growth mechanisms for the nanostrucutres Concise yet comprehensive this is indispensable reading for chemists and materials scientists **Nanomaterials for Water Treatment and Remediation** Srabanti Ghosh,Aziz Habibi-Yangjeh,Swati Sharma,Ashok Kumar Nadda,2021-12-28 Offering a comprehensive view of water treatment technologies Nanomaterials for Water Treatment and Remediation explores recent developments in the use of advanced nanomaterials ANMs for water treatment and remediation In depth reaction mechanisms in water treatment technologies including adsorption catalysis and membrane filtration for water purification using ANMs are discussed in detail The book includes an investigation of the fabrication processes of nanostructured materials and the fundamental aspects of surfaces at the nanoscale The book also covers the removal of water borne pathogens and microbes through a photochemical approach FEATURES Explains various chemical treatments for the removal and separation of hazardous dyes organic pollutants pharmaceuticals and heavy metals from aqueous solutions including adsorption advanced oxidation process and photocatalysis Discusses the rational design of nanoporous materials with a tunable pore structure and fabrication of nanomaterials by surface chemistry engineering Covers the role of nanomaterials assisted oxidation and reduction processes design of nano assisted membrane based separation and multifunctional nanomaterials and nanodevices for water treatment Provides an understanding of the structure activity relationship and stability of ANMs under critical experimental conditions Identifies potential challenges in the application of multifunctional ANMs for future research Nanomaterials for Water Treatment and Remediation is aimed at researchers and industry professionals in chemical materials and environmental engineering as well as related fields interested in the application of advanced materials to water treatment and remediation The Chemistry Of Nanostructured Materials Peidong Yang,2003-12-23 This important book reviews extensively the preparative chemistry of various nanostructured materials as well as structural property correlations for these new materials Materials of current interest such as nanocrystals nanowires nanotubes porous materials and composites are comprehensively covered *Functionalized Nanoscale Materials, Devices and Systems* Ashok K. Vaseashta,Ion N. Mihailescu,2010-11-16 The primary objective of the NATO Advanced Study Institute ASI titled Functionalized Nanoscale Materials Devices and Systems for Chem Bio Sensors Photonics and Energy Generation and Storage was to present a contemporary and comprehensive overview of the field of nanostructured materials and devices and its applications in chem bio sensors nanophotonics and energy generation and storage devices The study has become one of the most promising disciplines in science and technology as it aims at the

fundamental understanding of new physical che cal and biological properties of systems and the technological advances arising from their exploration Such systems are intermediate in size between the isolated atoms and molecules and bulk material where the unique transitional characteristics between the two can be understood controlled and manipulated Nanotechnologies refer to the creation and utilization of functional materials devices and systems with novel properties and functions that are achieved through the control of matter atom by atom molecule by molecule or at a micro mo cular level Advances made over the last few years provide new opportunities for scientific and technological developments in nanostructures and nanosystems with new architectures with improved functionality The field is very actively and rapidly evolving and covers a wide range of disciplines Recently various nanoscale materials devices and systems with remarkable properties have been developed with numerous unique applications in chemical and biological sensors nanophotonics nano biotechnology and in vivo analysis of cellular processes at the nanoscale **Nanoscale Materials in Chemistry** ,2011

Inorganic Particle Synthesis Via Macro and Microemulsions Dibyendu Ganguli,Munia Ganguli,2003-10-01

Understanding the Non-covalent Interactions in Macroions and Hybrid Macromolecules Jing Zhou,2015 Self assembly is known as a route to achieve order from disorder at various length scales ubiquitously in nature science and technology Noncovanlent interactions such as electrostatic interactions hydrophobic interactions metal coordination and hydrogen bonding have been utilized extensively in past decades to build and control macromolecular self assemblies Hydrophilic macroions with sizes ranging between simple ions point charges valid for the Debye Hu ckel Theory and colloidal suspensions usually described by the DLVO theory demonstrate unique solution behavior by self assembling into ordered single layer hollow spherical blackberry structures Counterion mediated attraction is considered as the main driving force for the self assembly behavior Herein we investigated the solution behavior of ionic polyhedral oligomericsilsesquioxane POSS and cyclodextrin CD which have well defined size shape and charge density by laser light scattering LLS Sub nanometer sized ionic POSS provides a valuable opportunity to explore the unknown size boundary between simple ions and macroions Whereas studying ionic CD a fully organic macroion expands our understanding beyond inorganic macroion Macroion polymer based giant surfactant with smart responsiveness was design and fabricated The novel hybrid can self assemble in pure water and response to temperature and salt stimuli We found different types of counterions impact the vesicle formation at room temperature The development of such stimulative vesicles provides new and useful means for catalytic and biomedical applications

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