

Supramolecular Design for Biological Applications

Edited by
Nobuhiko Yui



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Supramolecular Design For Biological Applications

**Nobuhiko Yui, Randall J. Mersny, Kinam
Park**



Supramolecular Design For Biological Applications:

Supramolecular Design for Biological Applications Nobuhiko Yui, 2002-03-11 Supramolecular chemistry is the outburst topic of the next generation of science While the majority of biomedical research efforts to date have centered on utilizing well known polymeric materials the recent progress in supramolecular chemistry has introduced a fascinating new field of macromolecular architecture *Supramolecular Design for Biopolymers for Biomedical and Biotechnological Applications* Bernd H. A. Rehm, M. Fata Moradali, 2021-07-06 Provides insight into biopolymers their physicochemical properties and their biomedical and biotechnological applications This comprehensive book is a one stop reference for the production modifications and assessment of biopolymers It highlights the technical and methodological advancements in introducing biopolymers their study and promoted applications *Biopolymers for Biomedical and Biotechnological Applications* begins with a general overview of biopolymers properties and biocompatibility It then provides in depth information in three dedicated sections *Biopolymers through Bioengineering and Biotechnology Venues Polymeric Biomaterials with Wide Applications and Biopolymers for Specific Applications* Chapters cover advances in biocompatibility advanced microbial polysaccharides microbial cell factories for biomanufacturing of polysaccharides exploitation of exopolysaccharides from lactic acid bacteria and the new biopolymer for biomedical application called nanocellulose Advances in mucin biopolymer research are presented along with those in the synthesis of fibrous proteins and their applications The book looks at microbial polyhydroxyalkanoates PHAs as well as natural and synthetic biopolymers in drug delivery and tissue engineering It finishes with a chapter on the current state and applications of and future trends in biopolymers in regenerative medicine Offers a complete and thorough treatment of biopolymers from synthesis strategies and physiochemical properties to applications in industrial and medical biotechnology Discusses the most attracted biopolymers with wide and specific applications Takes a systematic approach to the field which allows readers to grasp and implement strategies for biomedical and biotechnological applications *Biopolymers for Biomedical and Biotechnological Applications* appeals to biotechnologists bioengineers and polymer chemists as well as to those working in the biotechnological industry and institutes

Biomedical Applications of Hydrogels Handbook Raphael M. Ottenbrite, Kinam Park, Teruo Okano, 2010-09-05 Hydrogels are networks of polymer chains which can produce a colloidal gel containing over 99 per cent water The superabsorbency and permeability of naturally occurring and synthetic hydrogels give this class of materials an amazing array of uses These uses range from wound dressings and skin grafts to oxygen permeable contact lenses to biodegradable delivery systems for drugs or pesticides and scaffolds for tissue engineering and regenerative medicine *Biomedical Applications of Hydrogels Handbook* provides a comprehensive description of this diverse class of materials covering both synthesis and properties and a broad range of research and commercial applications The Handbook is divided into four sections *Stimuli Sensitive Hydrogels Hydrogels for Drug Delivery Hydrogels for Tissue Engineering and Hydrogels with Unique Properties* Key Features Provides

comprehensive coverage of the basic science and applications of a diverse class of materials Includes both naturally occurring and synthetic hydrogels Edited and written by world leaders in the field *MXenes: Next-Generation 2D Materials* Jay Singh, Kshitij RB Singh, Ravindra Pratap Singh, Charles Oluwaseun Adetunji, 2024-03-25 MXenes One stop reference explaining the manufacturing design and many applications of MXenes in an easy to understand linear format MXenes is a one stop reference on MXenes a promising new class of 2D materials discussing the routes of functionalization and modifications towards high performance materials and providing broad coverage of lab synthesis methods To aid in reader comprehension this text presents the topic in a linear fashion starting with an introduction to MXenes and ending with a comparison of MXenes to other similar 2D materials discussing limitations advantages future perspectives and challenges of both MXenes and MXene based materials The text covers up to date research in the field with a strong focus on novel findings in various devices along with core technological advancements that have been made in recent years MXenes discusses sample topics such as Properties of MXenes including strong hydrophilicity exceptional conductivity high elastic mechanical strength large surface to volume ratio and chemical stability Applications of MXenes in energy storage optoelectronics spintronics biomedicine electro catalysis photocatalysis membrane separation supercapacitors and batteries Performance factors that can hinder the efficacy of MXenes including aggregation difficulty obtaining a single layer restacking and oxidation of MXene nanosheets State of the art progress in the field of gas sensors and electrochemical biosensors for the detection of various biomolecules pharmaceutical drugs and environmental pollutants Containing everything readers need to know about this exciting new class of 2D materials MXenes is an essential reference for professionals working in advanced materials science flexible electronics nanoelectronics and the energy industry along with chemists material scientists and engineers in nanoscience and nanotechnology *Nanopatterning and Nanoscale Devices for Biological Applications* Seila Šelimović, 2017-12-19 Nanoscale techniques and devices have had an explosive influence on research in life sciences and bioengineering Reflecting this influence Nanopatterning and Nanoscale Devices for Biological Applications provides valuable insight into the latest developments in nanoscale technologies for the study of biological systems Written and edited by experts in the field this first of its kind collection of topics Covers device fabrication methods targeting the substrate on the nanoscale through surface modification Explores the generation of nanostructured biointerfaces and bioelectronics elements Examines microfluidically generated droplets as reactors enabling nanoscale sample preparation and analysis Gives an overview of key biosensors and integrated devices with nanoscale functionalities Discusses the biological applications of nanoscale devices including a review of nanotechnology in tissue engineering Readers gain a deep understanding of the cutting edge applications of nanotechnologies in biological engineering and learn how to apply the relevant scientific concepts to their own research Nanopatterning and Nanoscale Devices for Biological Applications is the definitive reference for researchers in engineering biology and biomedicine and for anyone exploring the

newest trends in this innovative field **Reflexive Polymers and Hydrogels** Nobuhiko Yui,Randall J. Mersny,Kinam Park,2004-03-17 Despite their capacity to carry out functions that previously were unobtainable smart polymers and hydrogels tend to have painfully slow response times On the other hand biological systems go through phase changes at an extremely fast rate Reflexive Polymers and Hydrogels examines the natural systems that respond almost instantaneously to environmental stimuli *Advanced Structural Inorganic Chemistry* Wai-Kee Li,Gong-Du Zhou,Thomas C. W. Mak,2008-03-27 A revised and updated English edition of a textbook based on teaching at the final year undergraduate and graduate level It presents structure and bonding generalizations of structural trends crystallographic data as well as highlights from the recent literature *Introduction to Nanoscience and Nanotechnology* Gabor L. Hornyak,H.F. Tibbels,Joydeep Dutta,John J. Moore,2008-12-22 The maturation of nanotechnology has revealed it to be a unique and distinct discipline rather than a specialization within a larger field Its textbook cannot afford to be a chemistry physics or engineering text focused on nano It must be an integrated multidisciplinary and specifically nano textbook The archetype of the modern nano textbook

Design and Development of New Nanocarriers Alexandru Mihai Grumezescu,2017-11-30 Design and Development of New Nanocarriers focuses on the design and development of new nanocarriers used in pharmaceutical applications that have emerged in recent years In particular the pharmaceutical uses of microfluidic techniques supramolecular design of nanocapsules smart hydrogels polymeric micelles exosomes and metal nanoparticles are discussed in detail Written by a diverse group of international researchers this book is a valuable reference resource for those working in both biomaterials science and the pharmaceutical industry Shows how nanomanufacturing techniques can help to create more effective cheaper pharmaceutical products Explores how nanofabrication techniques developed in the lab have been translated to commercial applications in recent years Explains safety and regulatory aspects of the use of nanomanufacturing processes in the pharmaceutical industry **Self-Assembled Nanomaterials I** Toshimi Shimizu,2008-09-09 This text was ranked by ISI as having the Highest Impact Factor of all publications within Polymer Science It is a collection of concise reports on the physics and chemistry of polymers *Polymeric Biomaterials* Severian Dumitriu,Valentin I. Popa,2013 The third edition of a bestseller this substantially expanded reference now in two volumes presents the latest polymer developments and most up to date applications of polymeric biomaterials in medicine This volume addresses the processing of polymeric biomaterials into specific forms that ensure biocompatibility and biodegradability for various uses in the medical and pharmaceutical arenas It covers applications such as drug delivery tissue engineering anticancer therapies hydrogels and bioartificial organs This comprehensive resource includes state of the art research and successful breakthroughs in applications that have occurred in the last ten years Comprehensive Nanoscience and Technology ,2010-10-29 From the Introduction

Nanotechnology and its underpinning sciences are progressing with unprecedented rapidity With technical advances in a variety of nanoscale fabrication and manipulation technologies the whole topical area is maturing into a vibrant field that is

generating new scientific research and a burgeoning range of commercial applications with an annual market already at the trillion dollar threshold The means of fabricating and controlling matter on the nanoscale afford striking and unprecedented opportunities to exploit a variety of exotic phenomena such as quantum nanophotonic and nanoelectromechanical effects Moreover researchers are elucidating new perspectives on the electronic and optical properties of matter because of the way that nanoscale materials bridge the disparate theories describing molecules and bulk matter Surface phenomena also gain a greatly increased significance even the well known link between chemical reactivity and surface to volume ratio becomes a major determinant of physical properties when it operates over nanoscale dimensions Against this background this comprehensive work is designed to address the need for a dynamic authoritative and readily accessible source of information capturing the full breadth of the subject Its six volumes covering a broad spectrum of disciplines including material sciences chemistry physics and life sciences have been written and edited by an outstanding team of international experts Addressing an extensive cross disciplinary audience each chapter aims to cover key developments in a scholarly readable and critical style providing an indispensable first point of entry to the literature for scientists and technologists from interdisciplinary fields The work focuses on the major classes of nanomaterials in terms of their synthesis structure and applications reviewing nanomaterials and their respective technologies in well structured and comprehensive articles with extensive cross references It has been a constant surprise and delight to have found amongst the rapidly escalating number who work in nanoscience and technology so many highly esteemed authors willing to contribute Sharing our anticipation of a major addition to the literature they have also captured the excitement of the field itself in each carefully crafted chapter Along with our painstaking and meticulous volume editors full credit for the success of this enterprise must go to these individuals together with our thanks for largely adhering to the given deadlines Lastly we record our sincere thanks and appreciation for the skills and professionalism of the numerous Elsevier staff who have been involved in this project notably Fiona Geraghty Megan Palmer and Greg Harris and especially Donna De Weerd Wilson who has steered it through from its inception We have greatly enjoyed working with them all as we have with each other

Intelligent Stimuli-Responsive Materials

Quan Li,2013-09-03 There has been concerted effort across scientific disciplines to develop artificial materials and systems that can help researchers understand natural stimuli responsive activities With its up to date coverage on intelligent stimuli responsive materials Intelligent Stimuli Responsive Materials provides research industry and academia professionals with the fundamentals and principles of intelligent stimuli responsive materials with a focus on methods and applications Emphasizing nanostructures and applications for a broad range of fields each chapter comprehensively covers a different stimuli responsive material and discusses its developments advances challenges analytical techniques and applications

Biosensing Jerome Schultz,Milan Mrksich,Sangeeta N. Bhatia,David J. Brady,Antonio J. Ricco,David R. Walt,Charles L.

Wilkins,2006-07-15 We have come to know that our ability to survive and grow as a nation to a very large degree depends

upon our scientific progress Moreover it is not enough simply to keep abreast of the rest of the world in scientific matters 1 We must maintain our leadership President Harry Truman spoke those words in 1950 in the aftermath of World War II and in the midst of the Cold War Indeed the scientific and engineering leadership of the United States and its allies in the twentieth century played key roles in the successful outcomes of both World War II and the Cold War sparing the world the twin horrors of fascism and totalitarian communism and fueling the economic prosperity that followed Today as the United States and its allies once again find themselves at war President Truman's words ring as true as they did a half century ago The goal set out in the Truman Administration of maintaining leadership in science has remained the policy of the U S Government to this day Dr John Marburger the Director of the Office of Science and Technology OSTP in the Executive Office of the President made remarks to that effect during his confirmation hearings in October 2 2001

Biomaterials for Delivery and Targeting of Proteins and Nucleic Acids Ram I. Mahato, 2004-12-28 Newcomers to the field of biopharmaceuticals require an understanding of the basic principles and underlying methodology involved in developing protein and nucleic acid based therapies for genetic and acquired diseases Biomaterials for Delivery and Targeting of Proteins and Nucleic Acids introduces the principles of polymer science and chemistry

Chemomechanical Instabilities in Responsive Materials Pierre Borckmans, Patrick de Kepper, Alexei R. Khokhlov, S. Métens, 2009-08-13 The present volume includes most of the material of the invited lectures delivered at the NATO Advanced Study Institute Morphogenesis through the interplay of nonlinear chemical instabilities and elastic active media held from 2th to 14th July 2007 at the Institut d Etudes Scientifiques de Corse se <http://www.iesc.univ.corse.fr> in Corsica France This traditional place to organize Summer Schools and Workshops in a well equipped secluded location at the border of the Mediterranean sea has over many years now earned an increasing deserved reputation Non linear dynamics of non equilibrium systems has worked its way into a great number of fields and plays a key role in the understanding of self organization and emergence phenomena in domains as diverse as chemical reactors laser physics fluid dynamics electronic devices and biological morphogenesis In the latter case the viscoelastic properties of tissues are also known to play a key role The control and formulation of soft responsive or smart materials has been a fast growing field of material science specially in the area of polymer networks due to their growing applications in bio science chemical sensors intelligent microfluidic devices Nature is an important provider of active materials whether at the level of tissues or at that of cellular structures As a consequence the fundamental understanding of the physical mechanisms at play in responsive materials also shines light in the understanding of biological artefacts

Hydrogels Vijay Kumar Thakur, Manju Kumari Thakur, 2018-08-28 This book discusses recent advances in hydrogels including their generation and applications and presents a compendium of fundamental concepts It highlights the most important hydrogel materials including physical hydrogels chemical hydrogels and nanohydrogels and explores the development of hydrogel based novel materials that respond to external stimuli such as temperature pressure pH light biochemicals or magnetism which represent

a new class of intelligent materials With their multiple cooperative functions hydrogel based materials exhibit different potential applications ranging from biomedical engineering to water purification systems This book covers key topics including superabsorbent polymer hydrogel intelligent hydrogels for drug delivery hydrogels from catechol conjugated materials nanomaterials loaded hydrogel electrospinning of hydrogels biopolymers based hydrogels injectable hydrogels interpenetrating polymer network hydrogels radiation and sonochemical synthesis of micro nano macroscopic hydrogels DNA based hydrogels and multifunctional applications of hydrogels It will prove a valuable resource for researchers working in industry and academia alike *Cyclodextrin Materials Photochemistry, Photophysics and Photobiology* Abderrazzak Douhal, 2006-09-20 Cyclodextrin Materials Photochemistry Photophysics and Photobiology provides to the scientific community the state of the art on photochemistry photophysics and photobiology of cyclodextrin complexes in one book and the chapters material will trigger further research in applied science connected to these small nanocapsules The chapters contain a large number of information of value not only to readers working in the field of cyclodextrins but also to researchers working on related areas like those of supramolecular chemistry nanochemistry and in general in nano and biotechnology 14 Chapters reviewed by specialists working in the field Chapters are ordered from simple to more complex systems and techniques providing developments in the field and its future Of interest to a multidisciplinary audience working in confined nanostructures *Chemoresponsive Materials* Hans-Jörg Schneider, 2015-07-13 Smart materials stimulated by chemical or biological signals are of interest for their many applications including drug delivery as well as in new sensors and actuators for environmental monitoring process and food control and medicine In contrast to other books on responsive materials this volume concentrates on materials which are stimulated by chemical or biological signals Chemoresponsive Materials introduces the area with chapters covering different responsive material systems including hydrogels organogels membranes thin layers polymer brushes chemomechanical and imprinted polymers nanomaterials silica particles as well as carbohydrate and bio based systems Many promising applications are highlighted with an emphasis on drug delivery sensors and actuators With contributions from internationally known experts the book will appeal to graduate students and researchers in academia healthcare and industry interested in functional materials and their applications Topological Polymer Chemistry Yasuyuki Tezuka, 2013 There are examples aplenty in the macroscopic world that demonstrate the form of objects directing their functions and properties On the other hand the fabrication of extremely small objects having precisely defined structures has only recently become an attractive challenge which is now opening the door to nanoscience and nanotechnology In the field of synthetic polymer chemistry a number of critical breakthroughs have been achieved during the first decade of this century to produce an important class of polymers having a variety of cyclic and multicyclic topologies These developments now offer unique opportunities in polymer materials design to create unprecedented properties and functions simply based on the form i e topology of polymer molecules In this book on topological polymer chemistry the

important developments in this growing area will be collected for the first time with particular emphasis on new conceptual insights for polymer chemistry and polymer materials The book will systematically review topological polymer chemistry from basic aspects to practice and give a broad overview of cyclic polymers covering new synthesis structure characterization basic properties functions and the eventual applications

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