



# Controlled Release Systems

Advances in Nanobottles and  
Active Nanoparticles

edited by

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# Online Controlled Release Systems Nanobottles Nanoparticles

**Oliver Sebastian Thomas**



## **Online Controlled Release Systems Nanobottles Nanoparticles:**

*Controlled Release Systems* Alex van Herk, Jacqueline Forcada, Giorgia Pastorin, 2016-01-05 In the area of controlled release of active substances such as drugs a strong interest in nanoparticles as carriers of active ingredients has arisen Some of the active components are extremely hydrophobic without cellular permeability and susceptible to metabolic degradation

Owing to this their use is limited This kind of agent can be transp **Synthetic Polymeric Materials-Based Drug Delivery Systems for Inflammatory Diseases** Harish Dureja, Vimal Arora, Paul A. McCarron, Vandana B. Patravale, Kamal Dua, 2025-09-22 This book provides a comprehensive overview of synthetic polymers and their applications in designing delivery systems for the management of inflammatory diseases It presents introductory insights into inflammatory conditions delves into the role of synthetic polymers and examines diverse delivery approaches Synthetic Polymeric Materials Based Drug Delivery Systems for Inflammatory Diseases explores the potential of synthetic polymers in designing drug delivery systems for managing inflammatory diseases including inflammatory lung diseases inflammatory bowel diseases and inflammatory skin diseases as well as other conditions like cancer neurodegenerative disorders rheumatoid arthritis and eye related inflammatory conditions It also discusses the role of synthetic polymers in modulating immune system responses in different disease conditions Furthermore it analyzes the 3D printing technologies employed for the preparation of drug delivery systems based on synthetic polymers Toward the end the book highlights the challenges and prospects of synthetic polymers in designing delivery systems for the effective management of inflammatory diseases and their clinical usage This book is intended for researchers and professionals in the fields of pharmaceutical sciences nanotechnology and drug delivery systems Key Features Highlights the role of a synthetic polymer based drug delivery system against inflammatory responses Explores the cutting edge technology of 3D printing and its application in preparing drug delivery systems based on synthetic polymers Provides valuable insights into how synthetic polymers can be used to modulate immune system responses Presents regulatory compliance using synthetic polymers in drug delivery systems for inflammatory diseases Examines challenges associated with synthetic polymers in drug delivery systems for inflammatory diseases **Encyclopedia of Chemical**

**Processing (Online)** Sunggyu Lee, 2005-11-01 This second edition Encyclopedia supplies nearly 350 gold standard articles on the methods practices products and standards influencing the chemical industries It offers expertly written articles on technologies at the forefront of the field to maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques This collecting of information is of vital interest to chemical polymer electrical mechanical and civil engineers as well as chemists and chemical researchers A complete reconceptualization of the classic reference series the Encyclopedia of Chemical Processing and Design whose first volume published in 1976 this resource offers extensive A Z treatment of the subject in five simultaneously published volumes with comprehensive indexing of all five volumes in the back matter of each tome It includes material on the design of key unit

operations involved with chemical processes the design unit operation and integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment and pilot plant design and scale up criteria This reference contains well researched sections on automation equipment design and simulation reliability and maintenance separations technologies and energy and environmental issues Authoritative contributions cover chemical processing equipment engineered systems and laboratory apparatus currently utilized in the field It also presents expert overviews on key engineering science topics in property predictions measurements and analysis novel materials and devices and emerging chemical fields ALSO AVAILABLE ONLINE This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

**Nanotechnology and Biosensors** Dimitrios P Nikolelis,Georgia Paraskevi Nikoleli,2018-06-27 Nanotechnology and Biosensors shows how nanotechnology is used to create affordable mass produced portable small sized biosensors to directly monitor environmental pollutants In addition it provides information on their integration into components and systems for mass market applications in food analysis environmental monitoring and health diagnostics Nanotechnology has led to a dramatic improvement in the performance sensitivity and selectivity of biosensors As metal oxide and carbon nanostructures gold and magnetite nanoparticles and the integration of dendrimers in biosensors using nanotechnology have contributed greatly in making biosensors more effective and affordable on a mass market level this book presents a timely resource on the topic Highlights nanotechnology based approaches to the detection of enzyme inhibitors direct enzymatic and microbial detection of metabolites and nutrients using biosensors Includes examples on how nanotechnology has lead to improvements in the construction of portable selective and sensitive biosensing devices Offers thorough coverage of biomarker biosensor interaction for the rapid detection of toxicants and pollutants

*Encapsulated Corrosion Inhibitors for Eco-Benign Smart Coatings* Ashish Kumar,Abhinay Thakur,2024-08-05 This book covers all the recent advancements and technologies developed for encapsulated corrosion inhibitors based coatings by using eco benign and sustainable encapsulated smart coatings based on self healing functionality It includes overview of properties and applicability of encapsulated inhibitors methodologies to detect corrosion and recent developments made in the field of corrosion science to study the inhibition potential of encapsulated corrosion inhibitors for eco benign smart coatings in several corrosive systems Features Covers encapsulation of the corrosion inhibitor which explores the self healing mechanism of the smart coatings Includes encapsulated corrosion inhibitor fabrication synthesis modeling functionalization classification characteristics and so forth Reviews effectiveness and significant constraints of scale up engineering Discusses the fundamental characteristics of industrial scale application research for encapsulated corrosion inhibitors Explores entire aspects of encapsulated corrosion inhibitors based sustainable smart coatings in one place This book is aimed at researchers and graduate students of corrosion engineering surface engineering and chemistry engineering

**Polymeric Nanomaterials in Nanotherapeutics** ,2018-10-26 Polymeric Nanomaterials in

Nanotherapeutics describes how polymeric nanosensors and nanorobotics are used for biomedical instrumentation surgery diagnosis and targeted drug delivery for cancer pharmacokinetics monitoring of diabetes and healthcare Key areas of coverage include drug administration and formulations for targeted delivery and release of active agents drug molecules to non healthy tissues and cells The book demonstrates how these are applied to dental work wound healing cancer cardiovascular diseases neurodegenerative disorders infectious diseases chronic inflammatory diseases metabolic diseases and more Methods of administration discussed include oral dental topical and transdermal pulmonary and nasal ocular vaginal and brain drug delivery and targeting Drug delivery topics treated in several subchapters includes materials for active targeting and cases study of polymeric nanomaterials in clinical trials The toxicity and regulatory status of therapeutic polymeric nanomaterials are also examined The book gives a broad perspective on the topic for researchers postgraduate students and professionals in the biomaterials biotechnology and biomedical fields Shows how the properties of polymeric nanomaterials can be used to create more efficient medical treatments therapies Demonstrates the potential and range of applications of polymeric nanomaterials in disease prevention diagnosis drug development and for improving treatment outcomes Accurately explains how nanotherapeutics can help in solving problems in the field through the latest technologies and formulations

*Clay-Based Pharmaceutical Formulations and Drug Delivery Systems* César Viseras,2021-01-19 This book includes recent advances in the use of clays in the design of medicinal products and medicinal devices The pharmaceutical applications of nanoclays are far ranging because of their distinct advantages they are versatile possess a wide range of mechanical chemical and physical properties and available at reasonable costs Some special clays mainly kaolinite halloysite montmorillonite saponite hectorite palygorskite and sepiolite as well as semi synthetic organoclays or synthetic double layer hydroxides derivatives are very useful materials for modulating drug delivery In the last decade several actives have been loaded onto nanoclays and similar inorganic excipients to increase solubility improve stability reduce toxicity and enhance bioavailability with a consequent increase in therapeutic response Polymer clay nanocomposites with synergic properties have been developed showing improved mechanical properties with respect to the pristine polymer matrices and allowing modified release of loaded actives Moreover nanoclays have very recently demonstrated positive effects on the proliferation and migration of fibroblasts The development of clay based medicinal products and medicinal devices requires experience in the fields of both clay structure and properties and pharmaceutical technology design

*NanoBioEngineering* Bhupinder Singh,2018-11-02 The objective of this book is to provide the fundamental comprehension of a broad range of topics in an integrated volume such that readership hailing from diverse disciplines can rapidly acquire the necessary background for applying it in pertinent research and development field

**Plant Transformation** Horacio Esteban Hopp,Luis Herrera-Estrella,German Spangenberg,2022-05-10 **Handbook of**

**Nanobioelectrochemistry** Uday Pratap Azad,Pranjal Chandra,2023-08-30 This handbook comprehensively reviews different

nanomaterials and modern electrochemical approaches used in the point of care analysis of biomolecules It describes the importance significance and application of various kinds of smart nanomaterials and their integration with modern electrochemical techniques for the point of care diagnosis of biologically important biomolecules The interaction between bio systems and nanomaterials have been discussed in this book using advanced electrochemical methods and characterizing techniques It describes the combination of classical and modern methodologies for the synthesis of metal nanoparticles nanoclusters and modern electrochemical techniques for the early stage detection and point of care diagnosis of cancer and other infectious disease such as SARS influenza tuberculosis TB and hepatitis Finally the book provides an accessible and readable summary of the use of nanomaterial for understanding the electrochemical reaction taking place at nano bio interfaces in electrochemical biomolecular detection and analysis The book bridges the gap and strengthens the relationship between electrochemists material scientists and biomolecular scientists who are directly or indirectly associated with the field of such point of care diagnostics *Micro- and Nano-containers for Smart Applications* Jyotishkumar

Parameswaranpillai,Nisa V. Salim,Harikrishnan Pulikkalparambil,Sanjay Mavinkere Rangappa,Ing. habil Suchart Siengchin,2022-02-11 This book comprehensively summarizes the recent achievements and trends in encapsulation of micro and nanocontainers for applications in smart materials It covers the fundamentals of processing and techniques for encapsulation with emphasis on preparation properties application and future prospects of encapsulation process for smart applications in pharmaceuticals textiles biomedical food packaging composites friction wear phase change materials and coatings Academics researchers scientists engineers and students in the field of smart materials will benefit from this book

**Handbook of Greener Synthesis of Nanomaterials and Compounds** Boris Kharisov,Oxana Kharissova,2021-04-03 Modern techniques to produce nanoparticles nanomaterials and nanocomposites are based on approaches that frequently involve high costs inefficiencies and negative environmental impacts As such there has been a real drive to develop and apply approaches that are more efficient and benign The Handbook of Greener Synthesis of Nanomaterials and Compounds provides a comprehensive review of developments in this field combining foundational green and nano chemistry with the key information researchers need to assess select and apply the most appropriate green synthesis approaches to their own work Volume 1 Fundamental Principles and Methods provides a clear introduction to the fundamentals of green synthesis that places synthesis in the context of green chemistry Beginning with a discussion of key greener physical and chemical methods for synthesis including ultrasound microwave and mechanochemistry methods the book goes on to explore biological methods including biosynthesis green nanoformation and virus assisted methods Discusses synthesis in the context of the principles of green chemistry Highlights both traditional and innovative technologies for the synthesis of nanomaterials and related composites under green chemistry conditions Reflects on the current and potential applications of natural products chemistry in synthesis *Encyclopedia of Iron, Steel, and Their Alloys (Online Version)* Rafael

Colás, George E. Totten, 2016-01-06 The first of many important works featured in CRC Press Metals and Alloys Encyclopedia Collection the Encyclopedia of Iron Steel and Their Alloys covers all the fundamental theoretical and application related aspects of the metallurgical science engineering and technology of iron steel and their alloys This Five Volume Set addresses topics such as extractive metallurgy powder metallurgy and processing physical metallurgy production engineering corrosion engineering thermal processing metalworking welding iron and steelmaking heat treating rolling casting hot and cold forming surface finishing and coating crystallography metallography computational metallurgy metal matrix composites intermetallics nano and micro structured metals and alloys nano and micro alloying effects special steels and mining A valuable reference for materials scientists and engineers chemists manufacturers miners researchers and students this must have encyclopedia Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts nomograms and figures Contains cross referencing for quick and easy search Each entry is written by a subject matter expert and reviewed by an international panel of renowned researchers from academia government and industry Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

**Polyacryl Nanoparticles as Controlled Release Drug Delivery System** Daniel Leu, 1983 **Polyacrylic Nanoparticles as Controlled Release Drug Delivery Systems** Daniel Leu, 1983 Mesoporous Silica and Magnetic Nanoparticle Based Controlled Release Giri Supratim, 2014-01 Nanotechnology is one of the key technologies of twenty first century It involves engineering with materials that have size dimension in nanometer range As important biological entities like virus pores of biological membranes proteins etc also share their sizes in the nanometer ranges there has been an extensive application of nanotechnology in biology and biomedicine Nanomaterial based drug delivery offers one of the most useful techniques to administer therapeutics in living cells and tissues Mesoporous silica nanomaterials act as excellent hosts to store and deliver guest molecules In this book research topics on the development of mesoporous silica nanomaterials as a stimuli responsive and controlled release delivery agents have been discussed Magnetic nanoparticles were utilized for targeting the drug delivery assembly to a site of interest and induce stimuli responsive drug release in proof of principle studies The work described in this book is expected to provide a rational approach towards designing targeted and stimuli responsive smart drug delivery systems Development of Light- and Ligand-controlled Release Systems for Biomolecules and Nanoparticles Oliver Sebastian Thomas, 2021 **Handbook of Pharmaceutical Controlled Release Technology** Donald L. Wise, 2000-08-24 The Handbook of Pharmaceutical Controlled Release Technology reviews the design fabrication methodology administration and classifications of various drug delivery systems including matrices and membrane controlled reservoir bioerodible and pendant chain systems Contains cutting edge research on the controlled delivery of biomolecules Discussing the advantages and limitations of controlled release systems the Handbook of Pharmaceutical Controlled Release Technology covers oral transdermal parenteral and implantable delivery of drugs discusses modification methods to achieve

desired release kinetics highlights constraints of system design for practical clinical application analyzes diffusion equations and mathematical modeling considers environmental acceptance and tissue compatibility of biopolymeric systems for biologically active agents evaluates polymers as drug delivery carriers describes peptide protein micro and nanoparticulate release systems examines the cost comfort disease control side effects and patient compliance of numerous delivery systems and devices and more

**Controlled Release Technologies** Ruth Duncan, Len W. Seymour, 1989

Nanoparticle Engineering for Enhanced Drug Delivery Stephanie Bosselmann, 2012

Low water solubility of drug compounds limits their dissolution in the aqueous body fluids When formulated using conventional methods those poorly water soluble drugs often results in low and erratic bioavailability The use of nanoparticle engineering technologies for the formulation of poorly water soluble drugs is a valuable strategy to enhance dissolution rates and thus bioavailability In Chapter 2 a nanoparticle engineering process Evaporative Precipitation into Aqueous Solution EPAS was modified to provide improved control over the size of precipitated particles The improved process Advanced EPAS was employed to prepare nanoparticles of the poorly water soluble drug itraconazole ITZ The influence of processing parameters and formulation aspects on the size of suspended ITZ particles was investigated The process was shown to be robust such that the size distribution of dispersed nanoparticles was largely independent across the different parameters In Chapter 3 aqueous nanoparticulate dispersions of the poorly soluble drug mefenamic acid MFA were developed and subsequently incorporated into controlled release formulations employing spray drying Release of MFA from spray dried formulations was sustained and complete demonstrating the feasibility of using nanoparticulates for the preparation of controlled release systems In Chapter 4 the nanoparticle engineering process Rapid Freezing RF was utilized to produce nanostructured amorphous aggregates of the poorly water soluble drug ketoprofen RF KET The stability of RF KET against recrystallization was improved through the deposition of a hydrophobic plasma polymerized film The coating presented an effective barrier against surface mobility and moisture uptake resulting in enhanced stability of RF KET for up to six months at accelerated storage conditions as compared to three days for uncoated RF KET



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