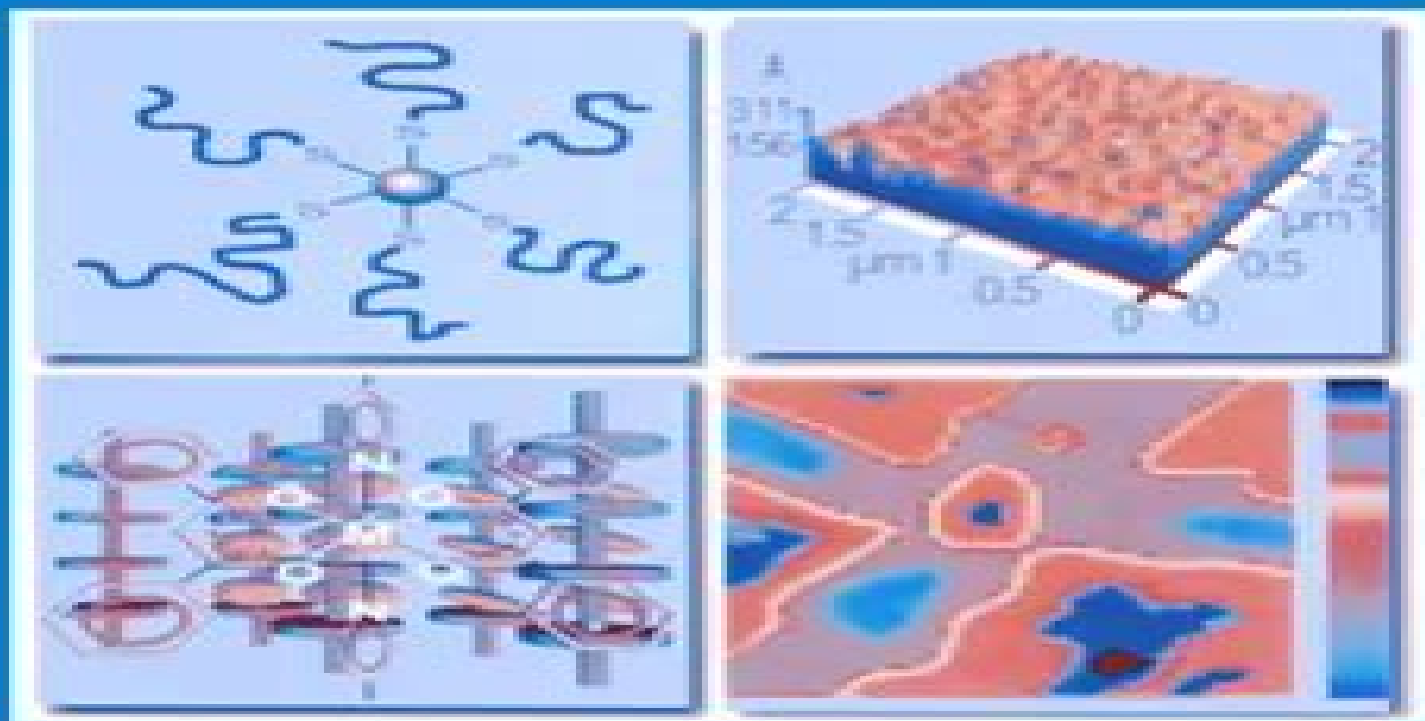


ACS SYMPOSIUM SERIES 912

# Stimuli-Responsive Polymeric Films and Coatings



EDITED BY  
Marek W. Urban

# Stimuli Responsive Polymeric Films And Coatings

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Kalarikkal**



## **Stimuli Responsive Polymeric Films And Coatings:**

**Stimuli-responsive Polymeric Films and Coatings** Marek W. Urban, 2005 Science of the stimuli responsive materials and in particular polymers and coatings will play a key role in the developments of future technologies and new knowledge in this field The book provides the highlights for newcomers as well as a comprehensive review for experienced practitioners of recent advances to stimuli responsive polymeric films and coatings Two sections of the book focus on synthetic and physocao chemical aspects and this book is a must to those involved in the growing field of nanotechnologies of stimuli responsive polymers

**Stimuli-responsive Materials** Marek W. Urban, 2016 Covers the scientific principles developments and recent technological advances of stimuli responsive materials for those new to and active in the field

**Stimuli-Responsive Materials** Marek W Urban, 2019-03-15 The ability for a material to change properties in response to external stimuli is an attractive feature for numerous applications and as such stimuli responsive materials are gaining attention across many different fields This book introduces the concepts of stimuli responsiveness including the fundamental materials properties required for design It provides readers with comprehensive scientific principles and developments of stimuli responsive materials as well as the recent technological advances Written by a renowned expert in the field this book is suitable for anyone interested in stimuli responsive materials working in polymers biochemistry biotechnology and materials science

**CVD Polymers** Karen K. Gleason, 2015-06-08 The method of CVD chemical vapor deposition is a versatile technique to fabricate high quality thin films and structured surfaces in the nanometer regime from the vapor phase Already widely used for the deposition of inorganic materials in the semiconductor industry CVD has become the method of choice in many applications to process polymers as well This highly scalable technique allows for synthesizing high purity defect free films and for systematically tuning their chemical mechanical and physical properties In addition vapor phase processing is critical for the deposition of insoluble materials including fluoropolymers electrically conductive polymers and highly crosslinked organic networks Furthermore CVD enables the coating of substrates which would otherwise dissolve or swell upon exposure to solvents The scope of the book encompasses CVD polymerization processes which directly translate the chemical mechanisms of traditional polymer synthesis and organic synthesis in homogeneous liquids into heterogeneous processes for the modification of solid surfaces The book is structured into four parts complemented by an introductory overview of the diverse process strategies for CVD of polymeric materials The first part on the fundamentals of CVD polymers is followed by a detailed coverage of the materials chemistry of CVD polymers including the main synthesis mechanisms and the resultant classes of materials The third part focuses on the applications of these materials such as membrane modification and device fabrication The final part discusses the potential for scale up and commercialization of CVD polymers

**Microfabrication of Stimuli-Responsive Polymers** Chuanliang Feng, Xiaoqiu Dou, Yibin Xu, 2021-03-08 This book introduces readers to interfacial reactions in confinement on stimuli responsive homopolymer and diblock copolymer films It also includes investigations

concerning the immobilization of bio molecules and the fabrication of biomolecular patterns by reactive microcontact printing on these reactive polymer films In turn the book takes advantage of the microphase separation of diblock copolymer films to study the fabrication of nanopatterns which could contribute to the future development of a model system that allows us to area selectively deposit and address bio molecules Given its scope the book broadens readers perspective on the microfabrication of stimuli responsive polymers

*Smart Polymers and Their Applications* Maria Rosa Aguilar,Julio San Román,2019-02-15 Smart Polymers and Their Applications Second Edition presents an up to date resource of information on the synthesis and properties of different types of smart polymers including temperature pH electro magnetic and photo responsive polymers amongst others It is an ideal introduction to this field as well as a review of the latest research in this area Shape memory polymers smart polymer hydrogels and self healing polymer systems are also explored In addition a very strong focus on applications of smart polymers is included for tissue engineering smart polymer nanocarriers for drug delivery and the use of smart polymers in medical devices Additionally the book covers the use of smart polymers for textile applications packaging energy storage optical data storage environmental protection and more This book is an ideal technical resource for chemists chemical engineers materials scientists mechanical engineers and other professionals in a range of industries Includes a significant number of new chapters on smart polymer materials development as well as new applications development in energy storage sensors and devices and environmental protection Provides a multidisciplinary approach to the development of responsive polymers approaching the subject by the different types of polymer e g temperature responsive and its range of applications

*Handbook of Research on Nano-Drug Delivery and Tissue Engineering* Rajakumari Rajendran,Hanna J Maria,Sabu Thomas,Nandakumar Kalarikkal,2022-03-09 With contributions from leading researchers in the nanomedicine field from industry academia and government and private research institutions across the globe the volume provides an up to date report on topical issues in nano drug delivery and nanotechnological approaches to tissue engineering The volume offers research on a variety of diverse nano based drug delivery systems along with discussions of their efficacy safety toxicology and applications for different purposes Focusing on nanotechnology approaches to tissue engineering this volume considers the use of hydrogel systems nanoceria and micro and nano structured biomaterials for bone tissue engineering mesenchymal stem cells and more

**Specialty Polymers and Materials** Shrikaant Kulkarni,Vasi Shaikh,2025-03-20 Specialty polymers are noted for their ability to retain valuable mechanical thermal and chemical characteristics when subjected to harsh environments such as high temperature high pressure and corrosive chemicals This new volume focuses on specialty polymers and polymer based materials in novel application areas discussing the synthesis and preparation methods the materials derived from them and how they are applied The volume touches on applications that vary from biomedical and defense to high performance coatings and smart materials for catalytic agricultural environmental and packaging applications Chapters explore the characteristic and distinct

properties of specialty polymers such as biodegradability high performance smart behaviors and other distinct characteristics along with their diverse applications such as in oil fields focusing on carbon geo storage for agricultural uses of various polymeric nanocomposites for smart polymeric coatings and adhesives including edible polymers and their applications in the food packaging industry in biosensor design and more

**Stimuli Responsive Polymeric Nanocarriers for Drug Delivery Applications** Abdel Salam Hamdy Makhlouf, Nedal Yusuf Abu-Thabit, 2018-06-14 Stimuli Responsive Polymeric Nanocarriers for Drug Delivery Applications Volume One Types and Triggers discusses in detail the recent trends in designing biodegradable and biocompatible single responsive polymers and nanoparticles for safe drug delivery Focusing on the most advanced materials and technologies evaluation methods and advanced synthesis techniques stimuli responsive polymers the book is an essential reference for scientists with an interest in drug delivery vehicles Sections focus on innovation development and the increased global demand for biodegradable and biocompatible responsive polymers and nanoparticles for safe drug delivery Offers an in depth look at the basic and fundamental aspects of alternative stimuli responsive polymers mechanisms structure synthesis and properties Provides a well defined categorization for stimuli responsive polymers for drug delivery based on different triggering mechanisms Discusses novel approaches and challenges for scaling up and commercialization of stimuli responsive polymers

***Handbook of Maleic Anhydride Based Materials*** Osama M. Musa, 2016-09-22 A handbook on syntheses and properties production processes and applications of maleic anhydride and maleic anhydride derived products all in one text This handbook provides a comprehensive overview of maleic anhydride chemistry and applications from the professional perspective With chapters written by leading R D scientists from the chemical industry and edited by the Vice President and ASI Technology Chief at Ashland Specialty Ingredients ASI Dr Osama M Musa readers will find a unique perspective and summary of the latest advancements in the field of maleic anhydride science Maleic anhydride is produced industrially on large scale 10E3 kt annum Its rich chemistry makes it an important raw material for numerous products and processes e g for applications in polymers and coatings many of which are covered in this handbook for the first time in a comprehensive manner The broad scope spans topics ranging from production techniques including topics such as processes catalysis trouble shooting synthesis and properties of small and polymeric maleic anhydride based compounds focusing on industrially relevant compounds as well as emerging areas of importance and in depth and broad discussions of commercial maleic anhydride based applications

**Industrial Applications for Intelligent Polymers and Coatings** Majid Hosseini, Abdel Salam Hamdy Makhlouf, 2016-05-14 This book is a comprehensive collaboration on intelligent polymers and coatings for industrial applications by worldwide researchers and specialists The authors cover the basis and fundamental aspects of intelligent polymers and coatings challenges and potential mechanisms and properties They include recent and emerging industrial applications in medical smart textile design oil and gas electronic aerospace and automobile industries as well as other applications including microsystems

sensors and actuators among others The authors discuss the potential for future research in these areas for improvement and growth of marketable applications of intelligent polymers and coatings **Stimuli-Responsive Dewetting/Wetting Smart Surfaces and Interfaces** Atsushi Hozumi, Lei Jiang, Haeshin Lee, Masatsugu Shimomura, 2018-11-16 Superhydrophobic surfaces artificially mimicking lotus leaves have captured the attention of scientists and engineers over the past few decades Recent trends have shifted from superhydrophobicity to superomnipohobicity or superamphiphobicity In addition dynamic rather than static surface wetting dewetting properties which can be triggered by various stimuli including temperature pH magnetic electric fields solvents light exposure etc have been highly sought after for commercial applications This book will focus on recent topics related to various stimuli responsive wetting dewetting surfaces and give an overview of the knowledge and concepts of how to design and establish these smart artificial surfaces which can be used for technical developments in a wide variety research fields **Stimuli-Responsive Interfaces** Takeshi Kawai, Mineo

Hashizume, 2016-11-17 This book introduces recent progress in stimuli responsive interfaces constructed on colloidal materials such as micelles and vesicles and on solid material surfaces There is discussion of the effect of stimuli such as light heat pH and electric field on changes in the morphology of the molecules at the interfaces and that of colloidal materials The changes in the properties such as gelation ability dispersibility and emulsification ability of the resultant bulk materials containing these colloidal materials or those of the solid material are also covered In addition design criteria for high sensitivity quick responsiveness and high reversibility are presented In each author s original system the correlations between molecular level responses and bulk functional responses are described as well This book serves as an excellent guide to designing and fabricating novel functional eco friendly stimuli responsive interfaces and related materials

***Tribology of Polymeric Nanocomposites*** Klaus Friedrich, Alois K. Schlarb, 2013-05-14 Tribology of Polymeric Nanocomposites provides a comprehensive description of polymeric nanocomposites both as bulk materials and as thin surface coatings and provides rare focused coverage of their tribological behavior and potential use in tribological applications Providing engineers and designers with the preparation techniques friction and wear mechanisms property information and evaluation methodology needed to select the right polymeric nanocomposites for the job this unique book also includes valuable real world examples of polymeric nanocomposites in action in tribological applications Provides a complete reference to polmer nanocomposite material use in tribology from preparation through to selection and use Explains the theory through examples of real world applications keeping this high level topic practical and accessible Includes contributions from more than 20 international tribology experts to offer broad yet detailed coverage of this fast moving field **Polymer Coatings: Technologies and Applications** Sanjay Mavinkere Rangappa, Jyotishkumar

Parameswaranpillai, Suchart Siengchin, 2020-11-18 Polymer Coatings Technologies and Applications provides a comprehensive account of the recent developments in polymer coatings encompassing novel methods techniques and a broad

spectrum of applications The chapters explore the key aspects of polymer coatings while highlighting fundamental research different types of polymer coatings and technology advances This book also integrates the various aspects of these materials from synthesis to application Current status trends future directions and opportunities are also discussed FEATURES Examines the basics to the most recent advances in all areas of polymer coatings Serves as a one stop reference Discusses polymer coated nanocrystals and coatings based on nanocomposites Describes morphology spectroscopic analysis adhesion and rheology of polymer coatings Explores conducting stimuli responsive self healing hydrophobic and hydrophilic antifouling and antibacterial polymer coatings Covers modeling and simulation With contributions from the top international researchers from industry academia government and private research institutions both new and experienced readers will benefit from this applications oriented book Sanjay Mavinkere Rangappa is a research scientist at the Natural Composites Research Group Lab Academic Enhancement Department King Mongkut s University of Technology North Bangkok Thailand Jyotishkumar Parameswaranpillai is a research professor at the Center of Innovation in Design and Engineering for Manufacturing King Mongkut s University of Technology North Bangkok Thailand Suchart Siengchin is a professor at and president of King Mongkut s University of Technology North Bangkok Thailand *Food Packaging* Cornelia Vasile,Morten Sivertsvik,2019-04-18 Because of the increasing pressure on both food safety and packaging food waste the topic is important both for academics applied research industry and also for environment protection Different materials such as glass metals paper and paperboards and non degradable and degradable polymers with versatile properties are attractive for potential uses in food packaging Food packaging is the largest area of application within the food sector Only the nanotechnology enabled products in the food sector account for 50% of the market value with and the annual growth rate is 11 65% Technological developments are also of great interest In the food sector nanotechnology is involved in packaging materials with extremely high gas barriers antimicrobial properties and also in nanoencapsulants for the delivery of nutrients flavors or aromas antimicrobial and antioxidant compounds Applications of materials including nanomaterials in packaging and food safety are in forms of edible films polymer nanocomposites as high barrier packaging materials nanocoatings surface biocides silver nanoparticles as potent antimicrobial agents nutrition and nutraceuticals active bioactive packaging intelligent packaging nanosensors and nanomaterial based assays for the detection of food relevant analytes gasses small organic molecules and food borne pathogens and bioplastics Innovations in Graphene-Based Polymer Composites Sanjay Mavinkere Rangappa,Jyotishkumar Parameswaranpillai,Vinod Ayyappan,Madhu Gattumane Motappa,Suchart Siengchin,2022-06-15 *Innovations in Graphene Based Polymer Composites* reviews recent developments in this important field of research The book s chapters focus on processing methods functionalization mechanical electrical and thermal properties applications and life cycle assessment Leading researchers from industry academia and government research institutions from across the globe have contributed to the book making it a valuable reference resource for materials

scientists academic researchers and industrial engineers working on recent developments in the area of graphene based materials graphene based polymer blends and composites Readers will gain insights into what has been explored to date along with associated benefits and challenges for the future Presents a strong emphasis on synthesis methods functionalization processing and properties Includes chapters on characterization electrical conductivity and modeling and simulation Provides recent advances in applications including drawbacks and future scope

**Modern Technologies for Creating the Thin-film Systems and Coatings** Nikolay Nikitenkov, 2017-03-08 Development of the thin film and coating technologies TFCT made possible the technological revolution in electronics and through it the revolution in IT and communications in the end of the twentieth century Now TFCT penetrated in many sectors of human life and industry biology and medicine nuclear fusion and hydrogen energy protection against corrosion and hydrogen embrittlement jet engine space materials science and many others Currently TFCT along with nanotechnologies is the most promising for the development of almost all industries The 20 chapters of this book present the achievements of thin film technology in many areas mentioned above but more than any other in medicine and biology and energy saving and energy efficiency

**Smart Textile Coatings and Laminates** William C Smith, 2018-11-29 Smart Textile Coatings and Laminates Second Edition reviews a variety of topics regarding textile coatings and laminates to provide a stimulus for developing new and improved textile products It addresses coating and laminating processes and techniques and base fabrics and their interaction in coated fabrics Other sections discuss the different types of smart and intelligent coatings and laminates including microencapsulation technology conductive coatings breathable coatings phase change materials and their applications in textiles Many new chapters have been added in this updated edition including the medical applications of smart coatings responsive coatings and the integration of electronics into textiles With its highly distinguished editor and array of international contributors this book is a valuable reference for chemists textile technologists fiber scientists textile engineers and more Presents the state of the art in smart coatings for fibers fabrics and polymers providing fundamental knowledge and stimulus for further research and development Includes a new range of application areas including responsive coatings smart coatings for medical applications and the integration of electronics into textiles through coating technology Provides practical guidance for coating and laminating processes and techniques with a particular focus on the impact of nanotechnology on intelligent coatings

**Smart Polymers** José Miguel García, Félix Clemente García, José Antonio Reglero Ruiz, Saúl Vallejos, Miriam Trigo-López, 2022-01-19 Smart polymers react sharply to small changes in physical or chemical conditions and present an intelligent response to chemical stimuli i e chemical species including biomolecules pH solvents redox stimuli that trigger controlled depolymerization and physical stimuli i e temperature light mechanical stress and electrical stimuli For these reasons the interest in smart polymers has recently increased exponentially especially in biological stimuli i e application of polymer based biosensors drug delivery tissue engineering precision medicine and cell



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