

MOLECULARLY IMPRINTED MATERIALS

Science and Technology



Edited by
MINGDI YAN
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Molecularly Imprinted Materials Science And Technology

Lei Ye



Molecularly Imprinted Materials Science And Technology:

Molecularly Imprinted Materials Mingdi Yan, 2004-11-30 Providing an up to date overview of the field this reference presents extensive discussions on a wide range of approaches for molecular imprinting written by pioneering experts on the subject Molecularly Imprinted Materials Science and Technology offers experimental protocols that exemplify specific techniques as well as detailed surveys on molecular imprinting research and applications Provides a comprehensive tutorial for those who wish to learn basic techniques and make new contributions to the field as well as in depth discussions guidelines and experimental protocols to help beginners gain a jump start in the field of molecular imprinting The book examines the recent evolution of the technology offering step by step instruction on methods to design and optimize molecularly imprinted polymers and suggestions recommendations and troubleshooting strategies for alternative approaches and improvements discussed in the text about the editors MINGDI YAN is Associate Professor Department of Chemistry Portland State University Oregon After serving as a senior research scientist at Ikonos Corporation Portland Oregon she joined the Portland State University faculty and now leads a research group in organic and polymeric materials science She received the B S degree in polymer physics from the University of Science and Technology China and the Ph D degree in organic chemistry from the University of Oregon OLOF RAMSTRÖM is Associate Professor Royal Institute of Technology Stockholm Sweden After serving with Professor Jean Marie Lehn at Universit Louis Pasteur Strasbourg France he joined the Royal Institute of Technology and is now leading a group specializing in supramolecular chemistry and molecular recognition He received the M Sc degree in chemical engineering and the Ph D degree in bioorganic chemistry applied biochemistry from Lund Institute of Technology Lund University Sweden

Molecularly Imprinted Polymers (MIPs) Meenakshi Singh, 2023-05-12 Molecularly Imprinted Polymers MIPs Commercialization Prospects guides the reader through the various steps in the conceptualization design preparation and innovative applications of molecularly imprinted polymers while also demystifying the challenges relating to commercialization Sections cover molecularly imprinted polymers design modeling compositions and material selection Other sections describe novel methods and discuss the challenges relating to the use of molecularly imprinted polymers in specific application areas The final chapters of the book explore the current situation in terms of patents and commercialized materials based on MIPs as well as prospects and possible opportunities This is a valuable resource for all those with an interest in the development application and commercialization of molecularly imprinted polymers including researchers and advanced students in polymer science polymer chemistry nanotechnology materials science chemical engineering and biomedicine as well as engineers scientists and R D professionals with an interest in MIPs for advanced applications Covers all stages of molecular imprinting from conceptualization modeling and solvent choice to extraction monomer composition and miniaturization Offers a unique focus on commercialization examining the current situation and addressing barriers to further commercialization Includes state of the art novel approaches for the

utilization of biopolymers and their nanoparticles as imprinting matrixes and numerical calculations in the design of MIPs

Materials Science and Technology Sabar Hutagalung, 2012-03-07 Materials are important to mankind because of the benefits that can be derived from the manipulation of their properties for example electrical conductivity dielectric constant magnetization optical transmittance strength and toughness Materials science is a broad field and can be considered to be an interdisciplinary area Included within it are the studies of the structure and properties of any material the creation of new types of materials and the manipulation of a material's properties to suit the needs of a specific application The contributors of the chapters in this book have various areas of expertise therefore this book is interdisciplinary and is written for readers with backgrounds in physical science The book consists of fourteen chapters that have been divided into four sections Section one includes five chapters on advanced materials and processing Section two includes two chapters on bio materials which deal with the preparation and modification of new types of bio materials Section three consists of three chapters on nanomaterials specifically the study of carbon nanotubes nano machining and nanoparticles Section four includes four chapters on optical materials

Handbook of Molecularly Imprinted Polymers Carmen Alvarez-Lorenzo, 2013-12-30 This handbook provides a useful guide to preparing molecularly imprinted polymers MIPs for diverse practical applications The first chapter covers the general aspects of molecular imprinting technology The following chapters focus on specific applications such as MIPs for sample concentration MIPs for chromatography and related techniques MIPs as sensor components MIPs as traps for medical and bioremediation MIPs as catalysts and artificial enzymes and MIPs as components of drug delivery systems All chapters of the handbook follow a common structure interest of the MIP approach for that application specific aspects of the synthesis of MIPs for this aim requirements and general recipes representative examples of MIPs and their performance for that application a look to the future

Molecularly Imprinted Polymers in Biotechnology Bo Mattiasson, Lei Ye, 2015-07-14 Controlled radical polymerization techniques for molecular imprinting by Mark E Byrne From bulk polymers to nanoparticles by Lei Ye Post imprinting and in cavity functionalization by Toshifumi Takeuchi Characterization of MIPs affinity selectivity site heterogeneity by Richard Ansell Theoretical aspects and computer modelling by Ian Nicholls MIPs in aqueous environments by Bin Lu MIPs for binding macromolecules by Kenneth J Shea Solid phase extraction by Ecevit Yilmaz Sensors by Sergey A Piletsky MIPs for catalysis and synthesis by Marina Resmini Wastewater treatment by Bo Mattiasson MIPs as tools for bioassays biotransformation and drug delivery by Meiping Zhao

Advanced Molecularly Imprinting Materials Ashutosh Tiwari, Lokman Uzun, 2016-11-02 Molecularly imprinted polymers MIPs are an important functional material because of their potential implications in diverse research fields The materials have been developed for a range of uses including separation environmental biomedical and sensor applications In this book the chapters are clustered into two main sections Strategies to be employed when using the affinity materials and rational design of MIPs for advanced applications In the first part the book covers the recent advances in producing MIPs for sample

design preparation and characterizations In the second part the chapters demonstrate the importance and novelty of creation of recognition imprinted on the materials and surfaces for a range of microbial detection sensors in the biomedical environmental and food safety fields as well as sensing human odor and virus monitoring systems Part 1 Strategies of affinity materials Molecularly imprinted polymers MIP nanomaterials Micro and nanotraps for solid phase extraction Carbonaceous affinity nanomaterials Fluorescent MIPs MIP based fiber optic sensors Part 2 Rational design of MIP for advanced applications MIP based biomedical and environmental sensors Affinity adsorbents for environmental biotechnology MIP in food safety MIP based virus monitoring MIP based drug delivery and controlled release Biorecognition imprints on the biosensor surfaces MIP based sensing of volatile organic compounds in human body odour MIP based microcantilever sensor system

Molecularly Imprinted Catalysts Songjun Li, Shunsheng Cao, Sergey A. Piletsky, Anthony P.F. Turner, 2015-09-30

Molecularly Imprinted Catalysts Principle Synthesis and Applications is the first book of its kind to provide an in depth overview of molecularly imprinted catalysts and selective catalysis including technical details principles of selective catalysis preparation processes the catalytically active polymers themselves and important progress made in this field It serves as an important reference for scientists students and researchers who are working in the areas of molecular imprinting catalysis molecular recognition materials science biotechnology and nanotechnology Comprising a diverse group of experts from prestigious universities and industries across the world the contributors to this book provide access to the latest knowledge and eye catching achievements in the field and an understanding of what progress has been made and to what extent it is being advanced in industry The first book in the field on molecularly imprinted catalysts MIPs Provides a systematic background to selective catalysis especially the basic concepts and key principles of the different MIP based catalysts Features state of the art presentation of preparation methods and applications of MIPs Written by scientists from prestigious universities and industries across the world and edited by veteran researchers in molecular imprinting and selective catalysis

Molecularly Imprinted Sensors Songjun Li, Yi Ge, Sergey A. Piletsky, Joe Lunec, 2012-06-25

Molecular imprinting is a rapidly growing field with wide ranging applications especially in the area of sensor development where the process leads to improved sensitivity reliability stability and reproducibility in sensing materials Molecularly Imprinted Sensors in Analytical Chemistry addresses the most recent advances and challenges relating to molecularly imprinted polymer sensors and is the only book to compile this information in a single source From fundamentals to applications this material will be valuable to researchers working in sensing technologies for pharmaceutical separation and chemical analysis environmental monitoring and protection defense and security and healthcare Provides a systematic introduction to the different types of MIP based sensors and reviews the basic principles behind each type of sensor Includes state of the art methodology supported by comparisons and discussions from leading experts in the field Covers all types of sensing modes optical electrochemical thermal acoustic etc materials and platforms Appeals to a multidisciplinary audience of scientists and

graduate students in a wide variety of fields including chemistry biology biomedical science and engineering and materials science and engineering

NanoBiosensing Huangxian Ju,Xueji Zhang,Joseph Wang,2011-08-18 This book will cover the full scope of nanobiosensing which combines the newest research results in the cross disciplines of chemistry biology and materials science with biosensing and bioanalysis to develop novel detection principles sensing mechanisms and device engineering methods It not only covers the important types of nanomaterials for biosensing applications including carbon nanotubes carbon nanofiber quantum dots fullerenes fluorescent and biological molecules etc but also illustrates a wide range of sensing principles including electrochemical detection fluorescence chemiluminescence antibody antigen interactions and magnetic detection The book details novel developments in the methodology and devices of biosensing and bioanalysis combined with nanoscience and nanotechnology as well as their applications in biomedicine and environmental monitoring Furthermore the reported works on the application and biofunction of nanoparticles have attracted extensive attention and interest thus they are of particular interest to readers The reader will obtain a rich survey of nanobiosensing technology including the principles and application of biosensing the design and biofunctionalization of bionanomaterials as well as the methodology to develop biosensing devices and bioanalytical systems

Molecularly Imprinted Polymers Zeynep Altintas,2024-11-06 This book provides an overview of the latest technology and advances in the field of molecularly imprinted polymers MIPs and their diverse applications in healthcare diagnostics food safety and quality as well as environmental monitoring Divided into 3 parts the book offers an introduction to the basics of molecular imprinting and affinity materials followed by an outline of the main sensor applications and the contribution of smart nanomaterials to molecular imprinting The last part of the book compares MIP based diagnostics technologies with antibody and aptamer based diagnostics and discusses existing and further commercial opportunities for MIPs Through this book readers will get a wide range of information from basics to advanced applications in the molecular imprinting area and discover the impact of integrated approaches such as computational studies and nanotechnology on the development of imprinting techniques for biotechnological applications covering healthcare environmental and food safety research With its rich content the book is a unique contribution to the field and it holds great potential to be a reference work not only for researchers working in the field but also for the researchers who plan to design collaborative research projects to contribute to their particular field e g medical scientists medical doctors agricultural or food engineers

Aquananotechnology David E. Reisner,T. Pradeep,2014-09-24 The world s fresh water supplies are dwindling rapidly even wastewater is now considered an asset By 2025 most of the world s population will be facing serious water stresses and shortages Aquananotechnology Global Prospects breaks new ground with its informative and innovative introduction of the application of nanotechnology to the remediation

Smart Sensors and Systems Chong-Min Kyung,Hiroto Yasuura,Yongpan Liu,Youn-Long Lin,2016-10-16 This book describes the technology used for effective sensing of our physical world and intelligent processing techniques for

sensed information which are essential to the success of Internet of Things IoT The authors provide a multidisciplinary view of sensor technology from materials process circuits and big data domains and showcase smart sensor systems in real applications including smart home transportation medical environmental agricultural etc Unlike earlier books on sensors this book provides a global view on smart sensors covering abstraction levels from device circuit systems and algorithms

Biomedical Nanosensors Joseph M. Irudayaraj, 2012-11-21 This book draws together recent data on both cytoplasmic and flagellar dyneins and the proteins they interact with to give the reader a clear picture of what is currently known about the structure and mechanics of these remarkable macro molecular machines Each chapter is written by active researchers with a focus on currently used biophysical b

The Power of Functional Resins in Organic Synthesis Fernando Albericio, Judit Tulla-Puche, 2008-12-17 While many books cover solid phase synthesis and combinatorial synthesis this one is unique in its exclusive coverage of the other aspects of solid phase synthesis As such it contains everything you need to know from supported reagents to scavengers resins and the synthesis of biomolecules and natural products An invaluable companion for all chemists and biochemists working in university research and industry

Reactive and Functional Polymers Volume Three Tomy J. Gutiérrez, 2020-10-24 Reactive and functional polymers are manufactured with the aim of improving the performance of unmodified polymers or providing functionality for different applications These polymers are created mainly through chemical reactions but there are other important modifications that can be carried out by physical alterations in order to obtain reactive and functional polymers This volume presents a comprehensive analysis of these reactive and functional polymers Reactive and Functional Polymers Volume Three considers advanced polymeric materials such as electroactive polymers multi responsive polymers shape memory polymers stimuli responsive polymers and active and intelligent polymers as topics for analysis World renowned researchers from Argentina Austria China Egypt France India Iran Japan Pakistan Romania and Spain have participated in this book With its comprehensive scope and up to date coverage of issues and trends in Reactive and Functional Polymers this is an outstanding book for students professors researchers and industrialists working in the field of polymers and plastic materials

New Pesticides and Soil Sensors Alexandru Mihai Grumezescu, 2017-02-10 New Pesticides and Soil Sensors a volume in the Nanotechnology in the Agri Food Industry series is a practical resource that demonstrates how nanotechnology is a highly attractive tool that offers new options for the formulation of nanopesticides Recent advances in nanopesticide research is reviewed and divided into several themes including improvement of the water solubility of poorly soluble pesticide active ingredients to improve bioavailability and the encapsulation of pesticide active ingredients within permeable nanoparticles with the aim of releasing pesticide active ingredients in a controlled or targeted manner while also protecting active ingredients from premature photo degradation Provides examples of pesticide formulations that contain inorganic and organic nanoparticles Includes general principles and the most recent applications of chemical sensors and multisensory systems for the assessment of soils and main soil nutrition

component detection Presents the main benefits and drawbacks of chemical sensors and their employment in soil analysis for further applications Describes current issues of pesticide use environmental contamination bioaccumulation and increases in pest resistance which demands a reduction in the quantity of pesticides applied for crop and stored product protection

Molecularly Imprinted Polymers as Advanced Drug Delivery Systems Zhaosheng Liu,Yanping Huang,Yi Yang,2021-04-23 This book summarizes the recent advancements for drug delivery systems DDS in terms of fundamental principles rapidly emerging techniques and developing frontiers of molecular imprinting Especially with the combination of enantioselective molecularly imprinted polymers and water compatible molecularly imprinted polymers stimuli responsive imprinted DDS have been innovated and applied to dermal delivery ophthalmic drugs and cancer treatment This philosophy comprehensively revolutionizes the treatment strategy of human healthcare and provides the possibility to re trigger in vivo an exhaust system after the complete release of the starting drug cargo thus enabling precision medicine To this end the following unique features will be discussed and concluded 1 State of the art definition of MIP as drug delivery systems 2 Advanced techniques and clinical applications of MIP as drug delivery systems in the past decade 3 Novel frontiers and brand new technologies for example drug delivery devices for zero order sustained release and stimuli responsive imprinted DDS 4 Revolutionary impact on dermal delivery ophthalmic drugs and cancer treatment 5 Future challenges and perspectives

Sensory Polymers José Miguel García,Saúl Vallejos,Miriam Trigo-López,2024-08-01 Sensory Polymers From their Design to Practical Applications discusses recent developments in the field of sensory polymers and showcases the potential applications of these materials in food control and security civil security the biomedical field environmental control and remediation industrial control of chemicals and more Written by worldwide experts in the field chapters provide in depth knowledge on several different polymer sensors and their response to different stimuli which makes this book a valuable resource for researchers and advanced students in polymer science materials science and chemistry as well as those interested on sensing applications and chemical sensory systems including industry R D Discusses the foundation of sensory polymers from material design to development and production Explores state of the art applications in environmental control biomedicine sensing the chemical industry and food science Provides perspectives and future applications of polymer chemosensors

Molecular Imprinting Lei Ye,2016-04-19 Molecular imprinting is one of the most efficient methods to fabricate functional polymer structures with pre defined molecular recognition selectivity Molecularly imprinted polymers MIPs have been used as antibody and enzyme mimics in a large number of applications The outstanding stability and straightforward preparation make MIPs ideal subst **Immunoassay and Other Bioanalytical Techniques** Jeanette M. van Emon,2016-04-19 Taking an interdisciplinary approach that emphasizes the adaptability of immunochemical and related bioanalytical methods to a variety of matrices Immunoassay and Other Bioanalytical Techniques describes the strength and the versatility of these methods in a wide range of environmental and biological measurement applications With contribut

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