

Makoto Komiyama, Toshifumi Takeuchi,
Takashi Mukawa, and Hiroyuki Asanuma

Molecular Imprinting

From Fundamentals to Applications



Molecular Imprinting From Fundamentals To Applications

Ashutosh Tiwari, Lokman Uzun



Molecular Imprinting From Fundamentals To Applications:

Molecular Imprinting Makoto Komiyama, Toshifumi Takeuchi, Takashi Mukawa, Hiroyuki Asanuma, 2003-02-14 Molecular imprinting the polymerization of monomers in the presence of a template molecule which imprints structural information into the resulting polymers is a scientific field which is rapidly gaining significance for a widening range of applications in biotechnology biochemistry and pharmaceutical research The methods and tools needed to distinguish target molecules from others by means of tailor made receptors are constantly growing in importance and complexity This book gives a concise and highly up to date overview of the remarkable progress made in this field in the last five years The material is comprehensively presented by the authors giving a thorough insight into fundamentals and applications for researchers in both industry and academy

Molecular Imprinting Makoto Komiyama, Toshifumi Takeuchi, Takashi Mukawa, Hiroyuki Asanuma, 2021-06-04 Molecular Imprinting ist Polymerisation in Gegenwart einer Schablone die dem resultierenden Polymer eine bestimmte Struktur gibt Dies kann sowohl f r vorteilhafte Eigenschaften des Polymers als auch f r die Wiedererkennung der Schablonenstruktur durch das Polymer dem Schl ssel Schlo Prinzip genutzt werden Dieses wachsende Forschungsgebiet erf hrt zunehmende Bedeutung f r Biotechnologie Biochemie und Pharmazeutika Die Methoden und Werkzeuge zur selektiven Erkennung von spezifischen Zielmolek len durch ma geschneiderte Rezeptoren werden st ndig komplexer und wichtiger Dieses Buch gibt ber den bemerkenswerten Fortschritt der letzten Jahre auf diesem Gebiet einen pr gnanten und hochaktuellen berblick der sowohl Grundlagen als auch Anwendungen umfa t und damit gleicherma en Leser in Forschung und Industrie bedient

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Molecular Imprinting Karsten Haupt, 2012-03-13 Molecularly Imprinted Polymers by Karsten Haupt Ana V Linares Marc Bompert und Bernadette Tse Sum Bui Physical Forms of MIPs by Andrea Biffis Gita Dvorakova und Aude Falcimaigne Cordin Micro and Nanofabrication of Molecularly Imprinted Polymers by Marc Bompert Karsten Haupt und C dric Ayela Immuno Like Assays and Biomimetic Microchips by M C Moreno Bondi M E Benito Pe a J L Urraca und G Orellana Chemosensors Based on Molecularly Imprinted Polymers by Subramanian Suriyanarayanan Piotr J Cywinski Artur J Moro Gerhard J Mohr und Wlodzimierz Kutner Chromatography Solid Phase Extraction and Capillary Electrochromatography with MIPs by Blanka T th und George Horvai Microgels and Nanogels with Catalytic Activity by M Resmini K Flavin und D Carboni

Smart Materials Mel Schwartz, 2008-11-20 Explores State of the Art Work from the World s Foremost Scientists Engineers Educators and Practitioners in the Field Why use smart materials Since most smart materials do not add mass engineers can endow structures with built in responses to a myriad of contingencies In their various forms these materials can adapt to their environments by c

Handbook of Molecular

Imprinting Seung-Woo Lee, Toyoki Kunitake, 2012-09-18 Molecular imprinting focuses on the fabrication of an artificial receptor with perfect molecular recognition abilities. It has attracted a great deal of scientific attention because of the enormous opportunities it opens in the fields of separation, catalysis, and analysis. The advantages of the molecular imprinting enable to target a wide class of substances ranging from small molecules to big conglomerates such as proteins or even cells. In recent years, sensor applications based on molecular imprinting have started to attract greater attention because of the easy creation of robust receptor sites with high specificity and sensitivity toward a target compound. A collection of contributions from distinguished experts, **Handbook of Molecular Imprinting: Advanced Sensor Applications**, provides a comprehensive overview on the specific challenges of molecular imprinting in sensor applications. It covers various molecular imprinting approaches. As a result, a perspective of future device ensembles for sensing is acquired. The text lays particular emphasis on fundamental aspects as well as novel ideas in the context of sensor applications. It also highlights the operation principles of various sensor transducers that are generally employed in combination with molecular imprinting recognition elements.

Molecular Imprinting for Nanosensors and Other Sensing Applications Adil Denizli, 2021-01-20 **Molecular Imprinting for Nanosensors and Other Sensing Applications** provides fundamental knowledge on molecular imprinting, including types, preparation methods, properties, and characterization techniques. The book also covers the state of the art technological developments of sensors that incorporate with microfluidic systems, lab on a chip tools, and other techniques. Sections discuss the integration of molecularly imprinted polymers with current top notch tools and platforms that facilitate their potential applications in the realms of medicine, pharmaceuticals, and environmental monitoring. Topics of note include molecularly imprinted polymer based sensor models, their functionalization methodologies, prominent characteristics, and their characterization tools. Covers in an in depth manner molecular imprinting as it relates to nanosensors. Provides an appropriate resource on the various applications of imprinted sensors such as their use in the environment, medicine, and food industry. Includes future outlooks and expectations for sensor technology.

Molecular Imprinting Makoto Komiyama, Toshifumi Takeuchi, Takashi Mukawa, Hiroyuki Asanuma, 2003-02-14 Molecular imprinting, the polymerization of monomers in the presence of a template molecule which imprints structural information into the resulting polymers, is a scientific field which is rapidly gaining significance for a widening range of applications in biotechnology, biochemistry, and pharmaceutical research. The methods and tools needed to distinguish target molecules from others by means of tailor made receptors are constantly growing in importance and complexity. This book gives a concise and highly up to date overview of the remarkable progress made in this field in the last five years. The material is comprehensively presented by the authors, giving a thorough insight into fundamentals and applications for researchers in both industry and academy.

Handbook of Polymers for Pharmaceutical Technologies, Processing and Applications Vijay Kumar Thakur, Manju Kumari Thakur, 2015-08-04 Polymers are one of the most fascinating materials of the present era, finding their

applications in almost every aspects of life Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe This 4 partset of books contains precisely referenced chapters emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry Each volume offer deep insight into the subject being treated Volume 1 Structure and Chemistry Volume 2 Processing and Applications Volume 3 Biodegradable Polymers Volume 4 Bioactive and Compatible Synthetic Hybrid Polymers 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 **Designing Receptors for the Next Generation of Biosensors** Sergey A. Piletsky,Michael J. Whitcombe,2012-09-26 Despite achievements in the application of enzymes antibodies and biological receptors to diagnostics and sensing the last two decades have also witnessed the emergence of a number of alternative technologies based on synthetic chemistry This volume shows how synthetic receptors can be designed with characteristics that make them attractive alternatives to biological molecules in the sensory and diagnostics fields with contributions from leading experts in the area Subjects covered include synthetic receptors for a range of biomolecules the use of antimicrobial peptides for the detection of pathogenic microorganisms the development of molecularly imprinted polymer MIP nanoparticles the in silico design of MIPs and MIP based sensors and two chapters examining the development of sensors from an industrial point of view The particular focus of all chapters is on practical aspects either in the development process or the applications of the synthesized materials This book will serve as an important reference work for business leaders and technology experts in the sensors and diagnostics sector **Materials Nanoarchitectonics** Katsuhiko Ariga,Omar Azzaroni,2023-12-07 Materials Nanoarchitectonics From Integrated Molecular Systems to Advanced Devices provides the latest information on the design and molecular manipulation of self organized hierarchically structured systems using tailor made nanoscale materials as structural and functional units The book is organized into three main sections that focus on molecular design of building blocks and hybrid materials formation of nanostructures and applications and devices Bringing together emerging materials synthetic aspects nanostructure strategies and applications the book aims to support further progress by offering different perspectives and a strong interdisciplinary approach to this rapidly growing area of innovation This is an extremely valuable

resource for researchers advanced students and scientists in industry with an interest in nanoarchitectonics nanostructures and nanomaterials or across the areas of nanotechnology chemistry surface science polymer science electrical engineering physics chemical engineering and materials science Offers a nanoarchitectonic perspective on emerging fields such as metal organic frameworks porous polymer materials or biomimetic nanostructures Discusses different approaches to utilizing soft chemistry as a source for hierarchically organized materials Offers an interdisciplinary approach to the design and construction of integrated chemical nano systems Discusses novel approaches towards the creation of complex multiscale architectures

Imprinted Polymeric Membranes Laura Donato, 2023-07-04 Highly efficient separation tools are increasingly required for satisfying the necessity of the modern society In this context for achieving optimized separation and purification of targeted compounds the typical features of the imprinting technology and membrane science for developing the so called imprinted membranes have been exploited Imprinted membranes are smart systems endowing selective recognition properties towards specific molecules and ions that exhibit better performance with respect to the traditional separation techniques The aim of this monography is to give a contribution in promoting the knowlegde on the current research trend about this topic Starting from the concept of the molecular recognition the book introduces the reader to the fascinating world of the imprinting technology and membrane based processes up to discussing the development of imprinted polymers as well as imprinted membranes which represent their special format The different imprinting strategies as well as the theory and mechanisms of the separation are also explained Furthermore the application of molecularly imprinted polymeric membranes in different areas for the selective recognition of drugs active pharmaceutical ingredients pesticides other toxic compounds and proteins is discussed The attention is also devoted to their employment in enantiomeric separation sensors technology and controlled drug delivery Finally the production and application of ion imprinted membranes in the separation of metal ions rare earth element and anions and the role of cyclodextrins in the imprinting technology are discussed

Handbook of Measurement in Science and Engineering, Volume 3 Myer Kutz, 2016-06-17 A multidisciplinary reference of engineering measurement tools techniques and applications When you can measure what you are speaking about and express it in numbers you know something about it but when you cannot measure it when you cannot express it in numbers your knowledge is of a meager and unsatisfactory kind it may be the beginning of knowledge but you have scarcely in your thoughts advanced to the stage of science Lord Kelvin Measurement is at the heart of any engineering and scientific discipline and job function Whether engineers and scientists are attempting to state requirements quantitatively and demonstrate compliance to track progress and predict results or to analyze costs and benefits they must use the right tools and techniques to produce meaningful data The Handbook of Measurement in Science and Engineering is the most comprehensive up to date reference set on engineering and scientific measurements beyond anything on the market today Encyclopedic in scope Volume 3 covers measurements in physics electrical engineering and chemistry Laser Measurement

Techniques Magnetic Force Images using Capacitive Coupling Effect Scanning Tunneling Microscopy Measurement of Light and Color The Detection and Measurement of Ionizing Radiation Measuring Time and Comparing Clocks Laboratory Based Gravity Measurement Cryogenic Measurements Temperature Dependent Fluorescence Measurements Voltage and Current Transducers for Power Systems Electric Power and Energy Measurement Chemometrics for the Engineering and Measurement Sciences Liquid Chromatography Mass Spectroscopy Measurements of Nitrotyrosine Containing Proteins Fluorescence Spectroscopy X Ray Absorption Spectroscopy Nuclear Magnetic Resonance NMR Spectroscopy Near Infrared NIR Spectroscopy Nanomaterials Properties Chemical Sensing Vital for engineers scientists and technical managers in industry and government Handbook of Measurement in Science and Engineering will also prove ideal for academics and researchers at universities and laboratories 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 *Handbook of Affinity Chromatography* David S. Hage,Jack

Cazes,2005-07-19 This essential handbook guides investigators in the theory applications and practical use of affinity chromatography in a variety of fields including biotechnology biochemistry molecular biology analytical chemistry proteomics pharmaceutical science environmental analysis and clinical chemistry The Handbook of Affinity Chromatograph

Biosensors Sibel A. Ozkan,Bengi Uslu,Mustafa Kemal Sezgintürk,2022-07-11 Biosensors Fundamentals Emerging Technologies and Applications provides insight into the sensing applications of different types of biosensors relating to environmental pollutants microbiological analysis and healthcare It describes state of the art research in biosensors point of care testing potential applications as well as future prospects for biosensors This book Presents the essentials that readers need to know to make full use of biosensor technology Discusses recent perspectives on optical and electrochemical biosensors Details biosensor types for medical applications Teaches how to use enzymes for biological recognition in biomarker assays Proposes innovations in wearable and smart biosensors This book is aimed at advanced students

researchers and academics across a broad interdisciplinary field including biochemical pharmaceutical and environmental engineering as well as materials science analytical chemistry and biosciences

Advanced Molecularly Imprinting Materials Ashutosh Tiwari, Lokman Uzun, 2016-11-09 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 Polymers as Artificial Antibodies for the Environmental Health Santanu Patra, Mika Sillanpää, 2024-06-21 This book covers the fundamental principles of molecularly imprinted polymers (MIPs) and their synthesis methodologies, offering readers a solid understanding of these unique materials. It delves into the design and selection of template molecules for imprinting, as well as polymerization techniques and strategies for optimizing MIP performance. With a focus on real-world applications, the book showcases the wide range of environmental health problems that MIPs can address. It discusses the detection and quantification of pollutants in air, water, and soil using MIP-based sensors and biosensors. Additionally, it explores the use of MIPs in environmental remediation, such as the adsorption and removal of contaminants, as well as the development of MIP-based materials for water and soil treatment. The book also highlights the analytical applications of MIPs in environmental health, including separation and purification techniques, sample preparation, and preconcentration methods. It examines how MIPs can be integrated into analytical instrumentation and detection systems to enhance environmental analysis. By bringing together interdisciplinary knowledge from the fields of environmental science, chemistry, polymer science, analytical chemistry, and environmental engineering, this book provides readers with a comprehensive understanding of the potential of MIPs as artificial antibodies for environmental health. With its emphasis on real-world applications and case studies, it offers practical insights that researchers, academics, and professionals can apply in environmental monitoring, remediation, and analysis projects. *Selected Topics in Food Process Engineering* Oscar A. Vega-Castro, Ricardo

Simpson, María del Pilar Buera, Diana M. Granda-Restrepo, Cristian Camilo Villa Zabala, Magda I. Pinzón-Fandiño, Gustavo Fidel Gutiérrez-López, Gustavo Victor Barbosa-Cánovas, 2025-10-29 This text is based on the invited presentations at the XIII Ibero American Congress of Food Engineering CIBIA XIII which was held in Medellín Colombia in March 2022 Invited presentations were delivered by renowned food engineers worldwide and covered the latest on classic and novel topics driving food process engineering The selected topics are centered on how food process engineering is addressing new challenges related to technical social economic and environmental realities Selected Topics in Food Process Engineering covers important ground in current and future food processing including Food engineering contributions to health environment and quality of life The role of food engineering during pandemics Modeling of food processes Clean technologies for the processing and preservation of foods Alternative thermal and nonthermal processes challenges and opportunities to the food industry Advances in the characterization of food properties Nanotechnology in food processing Starch digestion Extraction processes in the food industry Food factory of the future This text serves as an inspirational tool for future research in food engineering and beyond as it promotes the well being of the population in terms of adequate food supply by bridging engineering knowledge the food chain and the fourth industrial revolution

Whispering the Secrets of Language: An Emotional Journey through **Molecular Imprinting From Fundamentals To Applications**

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