



edited by  
Seung-Woo Lee  
Toyoki Kunitake

Handbook of  
**Molecular  
Imprinting**  
Advanced Sensor Applications



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# Handbook Of Molecular Imprinting Advanced Sensor Applications

**Vijay Chaudhary, Sumit Gupta, Pallav  
Gupta, Partha Pratim Das**



## **Handbook Of Molecular Imprinting Advanced Sensor Applications:**

**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.

*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.

**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

**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

*Handbook of Polymers for Pharmaceutical Technologies, Structure and Chemistry* Vijay Kumar Thakur, Manju Kumari Thakur, 2015-06-19 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 part set 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

*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 *Multifaceted Bio-sensing Technology* Lakhveer Singh, Durga Madhab Mahapatra, Smita S. Kumar, 2022-11-08 Multifaceted Bio sensing Technology introduces the different types of biosensors their construction materials configurations production methods and their uses in bioelectrochemical fuel cells BEFC It focuses on recent progress in the production of biosensing platforms interfaces their integration design and fabrication and their multifaceted applications in bioelectrochemical systems The chapters explore the integration of genetic elements such as DNA enzymes and whole cells within these systems and address environmental applications including wastewater contaminant detection toxicity and bioremediation Throughout the book shows how rapid minuscule and affordable biocomponents can be produced for a variety of energy and environmental applications This book provides a practical introduction to the production of biocomponents for bioelectrochemical devices and environmental monitoring and will be a useful reference for graduates and researchers involved in the application of bioelectrochemical systems as well as those working more broadly in bioenergy electrochemistry biology environmental engineering and multidisciplinary research across those areas Examines the applications of biosensors in bioelectrochemical fuel cells and other fields and their integration and assembly for future uses Explores on the application of carbon nanomaterials in biosensors Presents detailed schematics and calculations that outline integrations in bioelectrochemical systems **Assessment of Polymeric**

**Materials for Biomedical Applications** Vijay Chaudhary, Sumit Gupta, Pallav Gupta, Partha Pratim Das, 2023-08-31 This book initiates with an introduction to polymeric materials followed by various classifications and properties of polymeric implant material including various development methods of polymeric materials and their characterization techniques An overview of various toxicology assessments of polymeric materials and polymeric materials for drug delivery system is also included Design and analysis of polymeric materials based components using Ansys software along with polymeric materials for additively manufactured artificial organs are also discussed Features Addresses assessment of polymeric materials in biomedical sciences including classification properties and development of polymeric implants Covers various topics in the field of tissue regeneration Discusses biocompatibility toxicity and biodegradation of polymeric materials Explores wide scale characterization to study the effect of inclusion size on the mechanical properties of polymeric materials Reviews limitations and future directions on polymeric material with emphasis on biocompatibility This book is aimed at graduate students and researchers in biomaterials biomedical engineering composites and polymers **Fiber Optic Sensors** Ignacio R.

Matias, Satoshi Ikezawa, Jesus Corres, 2016-11-01 This book describes important recent developments in fiber optic sensor technology and examines established and emerging applications in a broad range of fields and markets including power engineering chemical engineering bioengineering biomedical engineering and environmental monitoring Particular attention is devoted to niche applications where fiber optic sensors are or soon will be able to compete with conventional approaches

Beyond novel methods for the sensing of traditional parameters such as strain temperature and pressure a variety of new ideas and concepts are proposed and explored The significance of the advent of extended infrared sensors is discussed and individual chapters focus on sensing at THz frequencies and optical sensing based on photonic crystal structures Another important topic is the resonances generated when using thin films in conjunction with optical fibers and the enormous potential of sensors based on lossy mode resonances surface plasmon resonances and long range surface exciton polaritons Detailed attention is also paid to fiber Bragg grating sensors and multimode interference sensors Each chapter is written by an acknowledged expert in the subject under discussion

**Biosensors and Molecular Imprinting** Bo Mattiasson, Gizem Ertürk, 2018-07-06 This book is a printed edition of the Special Issue Biosensors and Molecular Imprinting that was published in Sensors

**The Quartz Crystal Microbalance in Soft Matter Research** Diethelm Johannsmann, 2014-07-17 This book describes the physics of the second generation quartz crystal microbalance QCM a fundamental method of analysis for soft matter at interfaces From a device for measuring film thickness in vacuum the quartz crystal microbalance QCM has in the past two decades evolved into a versatile instrument for analyzing soft matter at solid liquid and solid gas interfaces that found applications in diverse fields including the life sciences material science polymer research and electrochemistry As a consequence of this success the QCM is now being used by scientists with a wide variety of backgrounds to study an impressive diversity of samples with intricate data analysis methods being elaborated along the way It is for these practitioners of the QCM that the book is written It brings across basic principles behind the technique and the data analysis methods in sufficient detail to be educational and in a format that is accessible to anyone with an undergraduate level knowledge of any of the physical or natural sciences These principles concern the analysis of acoustic shear waves and build on a number of fundamental physical concepts which many users of the technique do not usually come across They have counterparts in optical spectroscopy electrical engineering quantum mechanics rheology and mechanics making this book a useful educational resource beyond the QCM itself The main focus is the physics of QCM but as the book describes the behavior of the QCM when exposed to films droplets polymer brushes particles vesicles nanobubbles and stick slip it also offers insight into the behavior of soft matter at interfaces in a more general sense

Molecularly Imprinted Polymer Composites Sooraj M.P., Archana S. Nair, Beena Mathew, Sabu Thomas, 2020-12-01 Molecular Imprinted Polymer Composites Synthesis Characterisation and Applications covers the design of composite materials containing nanostructures and molecular imprinted polymers that has materialized the ever sought out vision of homogeneous molecular imprinted polymers The inherent high surface to volume ratio of nanostructures has served well in increasing the surface area of conventional bulk polymers In recent decades molecularly imprinted polymer nanocomposite materials have attracted much attention for their potential applications in the fields of separation science sensing drug delivery waste water treatment and catalysis hence this book provides a much needed update on progress Includes information on molecular imprinted polymer

composites and their potential for commercialization Discusses their synthesis characterization and applications Analyzes the effect of incorporation of different nanostructures on the thermodynamic kinetic and adsorption behavior of imprinted sorbents

**Photocatalysis and Water Purification** Pierre Pichat, 2013-03-26 Water is one of the essential resources on our planet Therefore fresh water and the recycling of waste water are very important topics in various areas Energy saving green technologies are a demand in this area of research Photocatalysis comprises a class of reactions which use a catalyst activated by light These reactions include the decomposition of organic compounds into environmental friendly water and carbon dioxide leading to interesting properties of surfaces covered with a photocatalyst they protect e g against incrustation of fouling matter they are self cleaning antibacterial and viricidal Therefore they are attractive candidates for environmental applications such as water purification and waste water treatment This book introduces scientists and engineers to the fundamentals of photocatalysis and enlightens the potentials of photocatalysis to increase water quality Also strategies to improve the photocatalytic efficacy are pointed out synthesis of better photocatalysts combination of photocatalysis with other technologies and the proper design of photocatalytic reactors Implementation of applications and a chapter on design approaches for photocatalytic reactors round off the book Photocatalysis and Water Purification is part of the series on Materials for Sustainable Energy and Development edited by Prof G Q Max Lu The series covers advances in materials science and innovation for renewable energy clean use of fossil energy and greenhouse gas mitigation and associated environmental technologies

Advanced Low-Cost Separation Techniques in Interface Science George Z. Kyzas, Athanasios C. Mitropoulos, 2019-08-24 Advanced Low Cost Separation Techniques in Interface Science Volume 30 helps scientists and researchers in academia and industry gain expert knowledge on how to use separation techniques at minimal cost and energy usage It handles a broad range of highly relevant topics including modern flotation techniques low cost materials in liquid and gas phase adsorption new trends in molecular imprinting graphenes in separation nanobubbles and biopolymers in interface science the reuse of biomaterials green techniques for wastewaters and modeling in environmental interfaces The book shows that these techniques can be both attractive for both research and industrial purposes It is intended for chemical engineers working in wastewater treatment industries membrane industries pharmaceutical industries textile or tanneries industries hybrid topic industries and energy industries Focuses on cost and energy saving separation techniques in interface science Discusses multiple techniques including flotation adsorption materials synthesis and more Combines in a single source separation techniques advanced methodologies and the low cost potential of the techniques Describes techniques that are attractive for both research and industrial purposes

*Mip Synthesis, Characteristics and Analytical Application*, 2019-08-09 Mip Synthesis Characteristics and Analytical Application Volume 86 in the Comprehensive Analytical Chemistry series highlights advances in the field with this new volume presenting interesting chapters on synthesis and polymerization techniques of molecularly imprinted polymers Solid phase extraction technique as a general field of application of

molecularly imprinted polymer materials Advanced artificially receptor based sorbents for solid phase extraction using molecular imprinting technology a new trend in food analysis Application of molecularly imprinted polymers in microextraction and solventless extraction techniques Magnetic molecularly imprinted microspheres analytical approach Surface Imprinted Micro and Nanoparticles and much more Contains a valuable source of information on the wide spectrum of application fields of molecularly imprinted polymers as a green sorption medium Describes the application potential of currently molecular imprinting technologies associated with the solid phase extraction techniques magnetic imprinted microspheres sorbents in mass spectrometry and imprinted polymer electrochemical sensors     Smart Nanomaterials for Sensor Application Songjun Li,Yi Ge,He Li,2012-03-31 There is considerable interest in reliable and affordable sensor and detection systems Recent concerns about environmental exposure to both biological and chemical agents have been critical to the development of new sensor and detector technologies New materials are being developed to meet the challenges ahead Smart nanomaterials appear to be a key solution to these challenges This e book summarizes current progress in sensor applications of smart nanomaterials It should be a useful resource for materials scientists and readers interested in nanotechnology for biosensors     Advanced Sensor and Detection Materials Ashutosh Tiwari,Mustafa M. Demir,2014-06-09 Presents a comprehensive and interdisciplinary review of the major cutting edge technology research areas especially those on new materials and methods as well as advanced structures and properties for various sensor and detection devices The development of sensors and detectors at macroscopic or nanometric scale is the driving force stimulating research in sensing materials and technology for accurate detection in solid liquid or gas phases contact or non contact configurations or multiple sensing The emphasis on reduced scale detection techniques requires the use of new materials and methods These techniques offer appealing perspectives given by spin crossover organic inorganic and composite materials that could be unique for sensor fabrication The influence of the length composition and conformation structure of materials on their properties and the possibility of adjusting sensing properties by doping or adding the side groups are indicative of the starting point of multifarious sensing The role of intermolecular interactions polymer and ordered phase formation as well as behavior under pressure and magnetic and electric fields are also important facts for processing ultra sensing materials The 15 chapters written by senior researchers in Advanced Sensor and Detection Materials cover all these subjects and key features under three foci 1 principals and perspectives 2 new materials and methods and 3 advanced structures and properties for various sensor devices     *Environmental Analysis by Electrochemical Sensors and Biosensors* Ligia Maria Moretto,Kurt Kalcher,2014-10-31 This book presents an exhaustive overview of electrochemical sensors and biosensors for the analysis and monitoring of the most important analytes in the environmental field in industry in treatment plants and in environmental research The chapters give the reader a comprehensive state of the art picture of the field of electrochemical sensors suitable to environmental analytes from the theoretical principles of their design to their implementation realization



and application The first three chapters discuss fundamentals and the last three chapters cover the main groups of analytes of environmental interest

*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

*Advanced Nanomaterials for Inexpensive Gas Microsensors* Eduard Llobet Valero, 2019-11-13 Advanced Nanomaterials for Inexpensive Gas Microsensors Synthesis Integration and Applications presents full coverage in the area of gas sensing nanomaterials from materials transducers and applications to the latest results and future direction Experts present work on metal oxides carbon based and hybrid materials fabrication and application The book brings together three major themes including synthesis functionalization and the characterization of advanced nanomaterials all emphasizing synthesis techniques that ease the integration of nanomaterials in transducers Chapters encompass a wide spectrum of sensing technologies including advanced nanomaterials metal oxides carbon materials and graphene and organic molecular materials and atomic layers MoS<sub>2</sub> The book s authors examine the coupling of sensitive nanomaterials to different types of transducer elements and their applications including direct growth and additive fabrication techniques as a way to obtain inexpensive gas microsensors principal transduction schemes and advanced operating methods Presents technological solutions and applications of gas sensors in varied areas of chemistry physics material science and engineering Examines advanced operating methods e g temperature modulation self heating light activated response noise methods to enhance stability sensitivity selectivity and reduce power consumption Provides a critical review of current applications and their expected future evolution demonstrating the most promising approaches and future expectations in the development of inexpensive gas micro and nanosensors

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