

Topics in Current Chemistry 325

Karsten Haupt *Editor*

Molecular Imprinting

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Molecular Imprinting Topics In Current Chemistry

Ashutosh Tiwari, Lokman Uzun



Molecular Imprinting Topics In Current Chemistry:

Molecular Imprinting Karsten Haupt, 2012-03-16 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 *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 *The Fundamentals of Process Intensification* Andrzej Stankiewicz, Tom Van Gerven, Georgios Stefanidis, 2019-06-13 This advanced textbook covering the fundamentals and industry applications of process intensification PI discusses both the theoretical and conceptual basis of the discipline Since interdisciplinarity is a key feature of PI the material contained in the book reaches far beyond the classical area of chemical engineering Developments in other relevant disciplines such as chemistry catalysis energy technology applied physics electronics and materials science are extensively described and discussed while maintaining a chemical engineering perspective Divided into three major parts the first introduces the PI principles in detail and illustrates them using practical examples The second part is entirely devoted to fundamental approaches of PI in four domains spatial thermodynamic functional and temporal The third and final part explores the methodology for applying fundamental PI approaches in practice As well as detailing technologies the book focuses on safety energy and environmental issues giving guidance on how to incorporate PI in plant design and operation safely efficiently and effectively *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 NanoArmoring of Enzymes: Rational Design of Polymer-Wrapped Enzymes

,2017-04-14 Nanoarmoring of Enzymes Rational Design of Polymer Wrapped Enzymes Volume 590 is the latest volume in the Methods in Enzymology series that focuses on nanoarmoring of enzymes and the rational design of polymer wrapped enzymes This new volume presents the most updated information on a variety of topics including specific chapters on Encapsulating Proteins in Nanoparticles Batch by Batch or One by One Enzyme Adsorption on Nanoparticle Surfaces Probed by Highly Sensitive Second Harmonic Light Scattering Armoring Enzymes by Metal Organic Frameworks by the Coprecipitation Method and Enzyme Armoring by an Organosilica Layer Synthesis and Characterization of Hybrid Organic Inorganic Nanobiocatalysts Users will find this to be an all encompassing resource on nanoarmoring in enzymes Focuses on the nanoarmoring of enzymes Covers the rational design of polymer wrapped enzymes Includes contributions from leading authorities working in enzymology Informs and updates on all the latest developments in the field of enzymology

Molecularly Imprinted Polymers as Artificial Antibodies for the Environmental Health Santanu Patra,Mika Sillanpaa,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 **Nature-Inspired Sensors**

Hossam Haick,2024-10-24 Nature Inspired Sensors presents and discusses the basic principles and latest developments in

nature inspired sensing and biosensing materials as well as the design and mechanisms for analyzing their potential in multifunctional sensing applications The book starts with a comprehensive review of certain fundamental mechanisms in different living creatures including humans animals and plants It presents and discusses ways for imitating various nature inspired structural features and their functional properties such as hierarchical interlocked porous and bristle like structures and hetero layered brick and mortar structures It also highlights the utility of these structures and their properties for sensing functions which include static coloration self cleaning adhesive underwater navigation and object detection electric charge generation and sensitive olfactory functions for detecting various substances This is followed by an appraisal of accumulating knowledge and its translation from the laboratory to the point of care phase using selective sensors as well as desktop and wearable artificial sensing devices for example electronic noses and electronic skins in conjunction with AI assisted data processing and decision making in the targeted field of application In addition the book offers an insight into the challenges of continuing the development of nature inspired smart sensing and biosensing technology and their wider availability which can be substantially improved It is a valuable reference for graduates undergraduates researchers and working professionals in the fields of chemistry materials science and biomedical and environmental science Discusses the current strategies for fabricating nature derived bio chemical sensors Presents ways to apply nature derived bio chemical sensors in real life Describes the future of nature derived bio chemical sensors

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

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 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

Nanoscale Materials in Water Purification Sabu Thomas, Daniel Pasquini, Shao-Yuan Leu, Deepu A Gopakumar, 2018-11-14 Novel nanoscale materials are now an essential part of meeting the current and future needs for clean water and are at the heart of the development of novel technologies to desalinate water The unique properties of nanomaterials and their convergence with current treatment technologies present great opportunities to revolutionize water and wastewater treatment Nanoscale Materials for Water Purification brings together sustainable solutions using novel nanomaterials to alleviate the physical effects of water scarcity This book covers a wide range of nanomaterials including noble metal nanoparticles magnetic nanoparticles dendrimers bioactive nanoparticles polysaccharidebased nanoparticles nanocatalysts and redox nanoparticles for water purification Significant properties and characterization methods of nanomaterials such as surface morphology mechanical properties and adsorption capacities are also investigated Explains how the unique properties of a range of nanomaterials makes them important water purification agents Shows how the use of nanotechnology can help create cheaper more reliable less energy intensive more environmentally friendly water purification techniques Includes case studies to show how nanotechnology has successfully been integrated into water purification system design

Colloids and Interfacial Dynamics Mineo Hashizume, Yoshiro Imura, 2025-09-07 This book presents the dynamics of colloids and interfaces in various materials such as assemblies of surfactants lipids nanoparticles and surfaces of biomaterials catalysts and engineering materials It covers a wide range of topics from basics to applications on fabrication functions and understanding the mechanisms of those systems The book highlights the importance of understanding from the perspective of colloidal and interfacial chemistry for the materials exhibiting dynamic behaviors Readers can find a new direction for the development of nano stimulus responsive systems consisting of molecular assemblies by understanding the relationships between the dynamics of molecules the dynamics of molecular assemblies and the dynamics of the functions of molecular assemblies Also the book provides useful knowledge for the development of new photocatalysts through a detailed explanation of the complex dynamics of electron transfer on the catalyst surface The authors hope that common denominators will be found in different materials from the perspective of the dynamics of colloids and interfaces and that readers will find guidelines for the development of new nanomaterials

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 *Applications of Supramolecular Chemistry* Hans-Jorg Schneider,2012-03-28 Applications of Supramolecular Chemistry introduces the use of non covalent interactions and molecular recognition for many fields Applications include the analysis of technically medically and environmentally important chemical compounds their separation purification and removal and the design of new materials including supramolecular elect **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 Organic Trace Analysis Reinhard Nießner,Andreas Schäffer,2024-09-23 Organic contaminants even in very low concentrations can have toxic and ecotoxic effects on exposed organisms Detection and quantification of such trace amounts in diverging matrices e g water air soil food tissue organisms is challenging and great carefulness and strategic thinking is needed to get reliable results along the way from taking samples up to the final analysis In the 2nd edition besides revisions of existing chapters new analytical technologies and recent application examples are presented non target mass spectrometric analysis trace analysis of per and polyfluoroalkylated forever chemicals organophosphorus esters nerve agents and micro and nanoplastic particles in the environment Students will learn about peculiarities and state of the art organic trace analysis and acquire basic and advanced principles of statistical evaluation of analytical results quality control strategies and good laboratory practices sampling techniques from various matrices sample treatment enrichment and clean up techniques chromatographic analyses including hyphenated techniques and spectroscopy as well mass spectrometry and

bioanalytical tools An extended chapter on selected applications will transfer the theoretical understanding into applied scientific problems Students will profit from a comprehensive and state of the art overview of organic trace analyses and from an extensive collection of relevant literature **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 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

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 *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 **Advances in Molecular Nanotechnology Research and Application: 2013 Edition** ,2013-06-21 *Advances in Molecular Nanotechnology Research and Application 2013 Edition* is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Molecular Motors The editors have built *Advances in Molecular Nanotechnology Research and Application 2013 Edition* on the vast information databases of ScholarlyNews You can expect the information about Molecular Motors in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Advances in Molecular Nanotechnology Research and Application 2013 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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