

A. Berthod (Ed.)



Chiral Recognition in Separation Methods

Mechanisms and Applications



Springer

Chiral Recognition In Separation Methods Mechanisms And Applications

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Hühnerfuss, Hassan Y. Aboul-
Enein, Imran Ali**



Chiral Recognition In Separation Methods Mechanisms And Applications:

Chiral Recognition in Separation Methods Alain Berthod, 2010-06-16 What drives a scientist to edit a book on a specific scientific subject such as chiral mechanisms in separation methods Until December 2005 the journal Analytical Chemistry of the American Chemical Society Washington DC had an A page section that was dedicated to simple and clear presentations of the most recent techniques or the state of the art in a particular field or topic The A page section was prepared for a broad audience of chemists including industrial professionals students as well as academics looking for information outside their field of expertise 1 Daniel W Armstrong one of the editors of this journal and a twenty year long friend invited me to present my view on chiral recognition mechanisms in a simple and clear way in an A page article In 2006 the A page section was maintained as the first articles at the beginning of each first bi monthly issue but the pagination was no longer page distinguished from the regular research articles published by the journal During the time between the invitation and the submission the A page section was integrated into the rest of the journal and the article appeared as 2006 Anal Chem 78 2093 2099

Chiral Environmental Pollutants Roland Kallenborn, Heinrich Hühnerfuss, Hassan Y. Aboul-Enein, Imran Ali, 2021-01-29 This monograph contains a survey on the role of chirality in ecotoxicological processes The focus is on environmental trace analysis Areas such as toxicology ecotoxicology synthetic chemistry biology and physics are also covered in detail in order to explain the different properties of enantiomers in environmental samples This monograph delivers a comprehensive survey for environmental trace analysts analytical chemists ecotoxicologists food scientists and experienced lab workers

Chiral Organic Pollutants Edmond Sanganyado, Basil K. Munjanja, Leo M.L. Nollet, 2020-12-30 Chiral Organic Pollutants introduces readers to the growing challenges of chirality in synthetic chemicals In this volume contributors brilliantly summarize the characteristics of chiral pollutants to provide tools and techniques for effectively assessing their environmental and human health risks Chapters cover recent research on the physicochemical properties sources exposure pathways environmental fate toxicity and enantioselective analysis of chiral organic pollutants Chiral Organic Pollutants also provides comprehensive discussions on the current trends in the synthesis and legislation of chiral chemicals Key Features Includes sampling and analytical methods for the enantioselective analysis of a wide array of chiral organic pollutants in food and the environment Summarizes recent research on the sources fate transport and toxicity of chiral organic pollutants in the environment Critically examines the sources and pathways of chiral organic pollutants such as pesticides pharmaceuticals and flame retardants in food Includes a comprehensive discussion on current trends in the enantioselective synthesis and chiral switching of pesticides and pharmaceuticals Provides analysis of current national and international regulations of chiral synthetic chemicals The use of chiral synthetic chemicals such as pesticides pharmaceuticals personal care products and halogenated flame retardants has significantly grown in the past 60 years Hence understanding the human and environmental health effects of chiral organic pollutants is crucial in the industry academia

and policymaking Chiral Organic Pollutants is an excellent textbook and reference for students scientists engineers and policymakers interested in food quality environmental pollution chemical analysis organic synthesis and toxicology Also available in the Food Analysis and Properties Series Analysis of Nanoplastics and Microplastics in Food edited by Leo M L Nollet and Khwaja Salahuddin Siddiqi ISBN 9781138600188 Proteomics for Food Authentication edited by Leo M L Nollet and Semih tle ISBN 9780367205058 Mass Spectrometry Imaging in Food Analysis edited by Leo M L Nollet ISBN 9781138370692 For a complete list of books in this series please visit our website at www.crcpress.com Food Analysis Properties book series CRCFOODANPRO Essentials in Modern HPLC Separations Serban C. Moldoveanu,Victor David,2022-06-24 Essentials in Modern HPLC Separations Second Edition discusses the role of separation in high performance liquid chromatography HPLC This new and updated edition systematically presents basic concepts as well as new developments in HPLC Starting with a description of basic concepts it provides important guidance for the practical utilization of various HPLC procedures such as the selection of the HPLC type proper choice of the chromatographic column selection of mobile phase and selection of the method of detection all of which are in correlation with the physico chemical characteristics of the compounds separated Every chapter has been carefully reviewed with several new sections added to bring the book completely up to date Hence it is a valuable reference for students and professors in chemistry Provides a thoroughly updated resource with an entirely new section on Computer aided Method Development in HPLC and new subsections on miniaturization and automation in HPLC chemometric aspects of HPLC green solvent use in HPLC and more Includes insights into the chromatographic process to find the optimum solution for analyzing complex samples Presents a basis for understanding the utilization of modern HPLC for applications particularly for the analysis of pharmaceutical biological food beverage and environmental samples **Specification of Drug Substances and Products** Christopher M. Riley,Thomas W. Rosanske,George L. Reid,2020-07-23 Specification of Drug Substances and Products Development and Validation of Analytical Methods Second Edition presents a comprehensive and critical analysis of the requirements and approaches to setting specifications for new pharmaceutical products with an emphasis on phase appropriate development validation of analytical methods and their application in practice This thoroughly revised second edition covers topics not covered or not substantially covered in the first edition including method development and validation in the clinical phase method transfer process analytical technology analytical life cycle management special challenges with generic drugs genotoxic impurities topical products nasal sprays and inhalation products and biotechnology products The book s authors have been carefully selected as former members of the ICH Expert Working Groups charged with developing the ICH guidelines and or subject matter experts in the industry academia and in government laboratories Presents a critical assessment of the application of ICH guidelines on method validation and specification setting Written by subject matter experts involved in the development and application of the guidelines Provides a comprehensive treatment of the analytical

methodologies used in the analysis control and specification of new drug substances and products Covers the latest statistical approaches including analytical quality by design in the development of specifications method validation and shelf life prediction

Advanced Mass Spectrometry-based Analytical Separation Techniques for Probing the Polar

Metabolome Rawi Ramautar, 2021-07-13 The efficient analysis of polar and charged metabolites in biological samples remains a huge challenge in the field of metabolomics Over the past years novel mass spectrometry based analytical tools have been developed to enable the sensitive and efficient profiling of polar ionogenic metabolites in various biological samples This book gives the reader a comprehensive overview of these recent technological developments Topics covered include the use of chemical labelling strategies for allowing the analysis of polar metabolites using reversed phase liquid chromatography mass spectrometry RPLC MS and the latest methodological developments in RPLC MS hydrophilic interaction liquid chromatography HILIC MS and ion pair LC MS approaches Attention is also paid to developments in nano LC MS and capillary electrophoresis mass spectrometry methods specifically for profiling polar metabolites in small volume biological samples The utility of ion mobility MS and NMR spectroscopy will also be outlined Sample preparation is the key part in the analytical workflow employed for metabolomics Therefore ample emphasis will be given on recent solid phase extraction and solid phase micro extraction methods Finally analytical techniques for chiral metabolic profiling will also be considered Discussing the state of the art of the proposed topics in one single book for probing the polar metabolome using relevant examples is unique and needed in the metabolomics field This book has relevance and appeal to an international audience of analytical and biomedical researchers in industry and academia

Comprehensive Chirality, 2012-12-31

Although many books exist on the subject of chiral chemistry they only briefly cover chiral synthesis and analysis as a minor part of a larger work to date there are none that pull together the background information and latest advances in one comprehensive reference work Comprehensive Chirality provides a complete overview of the field and includes chiral research relevant to synthesis analytic chemistry catalysis and pharmaceuticals The individual chapters in each of the 9 volumes provide an in depth review and collection of references on definition technology applications and a guide links to the related literature Whether in an Academic or Corporate setting these chapters will form an invaluable resource for advanced students researchers new to an area and those who need further background or answers to a particular problem particularly in the development of drugs Chirality research today is a central theme in chemistry and biology and is growing in importance across a number of disciplinary boundaries These studies do not always share a unique identifying factor or subject themselves to clear and concise definitions This work unites the different areas of research and allows anyone working or researching in chiral chemistry to navigate through the most essential concepts with ease saving them time and vastly improving their understanding The field of chirality counts several journals that are directly and indirectly concerned with the field There is no reference work that encompasses the entire field and unites the different areas of research through

deep foundational reviews Comprehensive Chirality fills this vacuum and can be considered the definitive work It will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research and or for solving problems Chief Editors Hisashi Yamamoto University of Chicago and Erick Carreira ETH Z rich have assembled an impressive world class team of Volume Editors and Contributing Authors Each chapter has been painstakingly reviewed and checked for consistent high quality The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource Separations Chemistry Fedor Macásek,James D.

Navratil,2016-06-06 Separation of chemical species is a gate to final success of synthesis and preparation of compounds in pure and defined state Variability of natural and artificial mixtures to be treated is enormous Task of chemistry is to separate components of homogeneous mixtures the gaseous and liquid solutions The book concentrates on understanding the basic philosophies of both equilibrium and nonequilibrium chemical thermodynamics and engineering performance that lay in principle of separation technique such as distillation crystallization centrifugation sorption membrane separations chromatography and liquid liquid extraction Specific phenomena connected with photochemical separation isotope composition and radioactivity are discussed as well The book is written for advanced students of chemistry having the knowledge of physical chemistry Calculation examples are based on the international system of units Unique list of over 1 300 full references covers scientific literature of the eighteenth to the twenty first centuries **Electroanalytical**

Applications of Quantum Dot-Based Biosensors Bengi Uslu,2021-05-19 Quantum dots QDs are hybrid organic inorganic nanoparticles with novel physical properties QDs have two components an inorganic core and an optically active coated shell Moreover surface coatings can be applied to QDs to modify the particle as needed for experiments Hydrophilic coatings prevent leaking of metal cargo from the core enhancing the solubility in biological contexts and bind molecules such as receptor ligands antibodies therapeutic and diagnostic macromolecules for enhanced effects Their high surface to volume ratio allows multiple functional groups to attach onto the surface of the particles at constant surface volume Silicon gallium indium or germanium based cadmium based and carbon based QDs have already been used in many applications such as imaging probes for the engineering of multifunctional nanodevices Superior properties of QDs make them an excellent system in technology and biotechnology This book describes electroanalytical applications of QD based nanobiosensors including brief information about the synthesis and characterization of QDs and basics of electroanalytical methods followed by QDs in electrochemical biomimetic sensors QDs in microchips inorganic materials doped QDs QD based electrochemical DNA biosensors electroluminescence for biomarker analysis using aptamer based QDs QD based photoelectrochemical techniques enzyme based nanobiosensors using QDs QD based electrochemical immunosensors and QD modified nanosensors in drug analysis Outlines QD based applications for drug food clinical and environmental science Shows how the properties of QDs make them effective ingredients in biosensing applications Assesses the major challenges in integrating

QDs in biosensing systems Chiral Separation Methods for Pharmaceutical and Biotechnological Products Satinder Ahuja, 2011-03-31 Discusses chiral separations and offers guidance for selecting the optimum method for desired results Chiral separations represent the most intriguing and by some measures most difficult separations of chemical compounds This book provides researchers and students an understanding of chiral separations and offers a convenient route to selecting the best separation method saving considerable time and cost in product development Considering chiral separations in the biotechnological and pharmaceutical industries as well as for food applications Dr Ahuja provides insights into a broad range of topics Opening with a broad overview of chiral separations regulatory considerations in drug product development and basic issues in method development the book Covers a variety of modern methods such as gas chromatography high performance liquid chromatography supercritical fluid chromatography and capillary electrophoresis Deals with the impact of chirality on the biological activity of small and large molecules Provides detailed information on useful chiral stationary phases CSPs for HPLC Includes handy information on selection of an appropriate CSP including mechanistic studies Offers strategies for fast method development with HPLC SFC and CE Discusses preparatory methods utilized in the pharmaceutical industry With in depth discussions of the current state of the field as well as suggestions to assist future developments Chiral Separation Methods for Pharmaceutical and Biotechnological Products is an essential text for laboratory investigators managers and regulators who are involved in chiral separations in the pharmaceutical industry as well as students preparing for careers in these fields *Selection of the HPLC Method in Chemical Analysis* Serban C. Moldoveanu, Victor David, 2016-11-01 Selection of the HPLC Method in Chemical Analysis serves as a practical guide to users of high performance liquid chromatography and provides criteria for method selection development and validation High performance liquid chromatography HPLC is the most common analytical technique currently practiced in chemistry However the process of finding the appropriate information for a particular analytical project requires significant effort and pre existent knowledge in the field Further sorting through the wealth of published data and literature takes both time and effort away from the critical aspects of HPLC method selection For the first time a systematic approach for sorting through the available information and reviewing critically the up to date progress in HPLC for selecting a specific analysis is available in a single book Selection of the HPLC Method in Chemical Analysis is an inclusive go to reference for HPLC method selection development and validation Addresses the various aspects of practice and instrumentation needed to obtain reliable HPLC analysis results Leads researchers to the best choice of an HPLC method from the overabundance of information existent in the field Provides criteria for HPLC method selection development and validation Authored by world renowned HPLC experts who have more than 60 years of combined experience in the field Stereoselective Synthesis of Drugs and Natural Products Vasyl Andrushko, Natalia Andrushko, 2013-08-16 Brings together the best tested and proven stereoselective synthetic methods Both the chemical and pharmaceutical industries are increasingly dependent on stereoselective synthetic

methods and strategies for the generation of new chiral drugs and natural products that offer specific 3 D structures With the publication of Stereoselective Synthesis of Drugs and Natural Products researchers can turn to this comprehensive two volume work to guide them through all the core methods for the synthesis of chiral drugs and natural products Stereoselective Synthesis of Drugs and Natural Products features contributions from an international team of synthetic chemists and pharmaceutical and natural product researchers These authors have reviewed the tremendous body of literature in the field in order to compile a set of reliable tested and proven methods alongside step by step guidance This practical resource not only explores synthetic methodology but also reaction mechanisms and applications in medicinal chemistry and drug discovery The publication begins with an introductory chapter covering general principles and methodologies nomenclature and strategies of stereoselective synthesis Next it is divided into three parts Part One General Methods and Strategies Part Two Stereoselective Synthesis by Bond Formation including C C bond formation C H bond formation C O bond formation C N bond formation Other C heteroatom formation and other bond formation Part Three Methods of Analysis and Chiral Separation References in every chapter serve as a gateway to the literature in the field With this publication as their guide chemists involved in the stereoselective synthesis of drugs and natural products now have a single expertly edited source for all the methods they need

Advanced Materials from Recycled Waste Sarika Verma,Raju Khan,Medha Mili,S.A.R. Hashmi,Avanish Kumar Srivastava,2022-08-24 Advanced Materials from Recycled Waste examines the structural components of waste and looks at how best to transform those waste materials into advanced materials that can be utilized for high end applications Sections explore what is meant by Waste looking at what are the sources types of waste and the management techniques and three sections dealing with specific types of waste materials including Industrial Agricultural and Plastics Polymers Classification characterization utilization of physical and mechanical properties and design and development are explored for each of these materials Each section concludes with a review of the challenges and future prospects for their utilization This book will be a vital resource for a broad audience interested in the reuse of waste materials including materials scientists and materials engineers in industry involved in the recycling reuse and reclamation of materials and industrial byproducts and some more general environmental scientists and engineers involved in sustainable development Focuses on various types of wastes and their sources and compounds Outlines the chemical constituents and mineralogical phases present in waste which could be exploited to design and develop advanced materials Takes a multidisciplinary approach to the management of waste Presents the bulk utilization of current waste application technologies to enable the implementation of newer strategies to produce various other materials that are useful for a broad application spectrum

Recent Advances in Analytical Techniques: Volume 5 Atta-ur-Rahman,Sibel Ozkan,2022-01-05 Recent Advances in Analytical Techniques is a series of updates in techniques used in chemical analysis Each volume presents a selection of chapters that explain different analytical techniques and their use in applied research

Readers will find updated information about developments in analytical methods such as chromatography electrochemistry optical sensor arrays for pharmaceutical and biomedical analysis The fifth volume of the series features five reviews which demonstrate chemical analysis techniques applied in different disciplines Superior Aspects of Liquid Chromatography Based Mass Spectrometers in Chiral Analysis New Trends in Sample Preparation for Pharmaceutical and Biological Analysis by Chromatographic Methods Qualitative and Quantitative Investigation of Bio Tissues using Microscopy and Data Mining Analytical Techniques For Analysis of Metals and Minerals in The Soil Samples Monitoring Therapeutic Response in Cancers A Raman Spectroscopy Approach Supercritical Fluid Chromatography Gérard Rossé, 2018-12-17 Supercritical Fluid Chromatography SFC provides a timely overview of SFC application areas which were unimaginable just a decade ago This two volume series opens with an overview of the history and expectant future of SFC and continues with recent applications in the pharmaceutical industry and other fascinating areas of science SFC has found its place in the pharmaceutical industry with an increasing body of applications for chiral and achiral molecules in both the research and development phases of the drug discovery process As illustrated in this two volume series the current interest in SFC extends well beyond the pharmaceutical industry Chapters encompassing applications for polar and non polar mixtures of importance are covering widely disparate areas in substance abuse natural products including cannabinoids bioactive lipids flavor and fragrance With its broad balance and coverage this two volume book constitutes a unique educational platform to students and scientists for many years to come The major objective of this book editions is to inspire and stimulate readers to continue exploring the possibilities of exploiting supercritical fluids as a particular media for analysis purifications and synthesis **Recent Trends in Carbohydrate Chemistry** Amélia Pilar Rauter, Bjørn E. Christensen, László Somsák, Paul Kosma, Roberto Adamo, 2020-04-29 Carbohydrate chemistry provides access to carbohydrate based natural products and synthetic molecules as useful biologically active structures relevant to many health care and disease related biological processes Recent Trends in Carbohydrate Chemistry Synthesis Structure and Function of Carbohydrates covers green and sustainable reactions organometallic carbohydrate chemistry synthesis of glycomimetics multicomponent reactions and chemical transformations leading to molecular diversity based on carbohydrates These include inhibitors of glycogen phosphorylase which are relevant in controlling type 2 diabetes and sugar sulfates Polysaccharides which are commonly modified chemically are also examined with contributions covering polysaccharide synthesis and modification of polysaccharides to obtain new structures and properties Recent Trends in Carbohydrate Chemistry Synthesis Structure and Function of Carbohydrates is ideal for researchers working as synthetic organic chemists and for those interested in biomolecular chemistry green chemistry organometallic chemistry and material chemistry in academia as well as in industry Enthalpy and Internal Energy Emmerich Wilhelm, Trevor M Letcher, 2017-09-08 Containing the very latest information on all aspects of enthalpy and internal energy as related to fluids this book brings all the information into one authoritative survey in this well defined field

of chemical thermodynamics Written by acknowledged experts in their respective fields each of the 26 chapters covers theory experimental methods and techniques and results for all types of liquids and vapours These properties are important in all branches of pure and applied thermodynamics and this vital source is an important contribution to the subject hopefully also providing key pointers for cross fertilization between sub areas

Chiral Separations and Stereochemical

Elucidation Quezia Bezerra Cass, Maria Elizabeth Tiritan, João Marcos Batista Junior, Juliana Cristina Barreiro, 2023-04-04 An expert resource for chemists using stereochemical analysis methods In Chiral Separations and Stereochemical Elucidation Fundamentals Methods and Applications a team of distinguished researchers delivers a robust and authoritative discussion of the theoretical fundamentals of chiral separation the most commonly used chiral selectors and stereochemical elucidation methods The book offers expert discussions of a variety of chiral separation methods by gas chromatography GC supercritical fluid chromatography SFC capillary electrophoresis CE and liquid chromatography LC The authors also describe several methods for stereochemical elucidation including X ray crystallography nuclear magnetic resonance spectroscopy and chiroptical methods The explored material is ideal for practicing chemists seeking a resource to help them guide method development and optimization or to explain quality control complements during target compound production Readers will also find A thorough introduction to the most important advances and applications in LC GC CE SFC and preparative chromatography Comprehensive explorations of the role of 2D LC for chiral separation methods development and applications Practical discussions of the design mechanisms and applications of the most commonly used chiral selectors Fulsome treatments of the theoretical backgrounds advantages limitations and applications of stereochemical elucidation methods Perfect for academic and industrial chemists specially in organic analytical chemistry and pharmaceutical analysis Chiral Separations and Stereochemical Elucidation Fundamentals Methods and Applications will also benefit biochemists environmental analysts forensic and medicinal chemists as well as natural product chemists and those involved with stereochemistry or structural elucidation

Enantioselective Synthesis, Enantiomeric Separations and Chiral Recognition Maria Elizabeth Tiritan, Madalena Pinto, Carla Sofia Garcia Fernandes, 2020-11-13 This book includes both fundamental studies and applications in a multidisciplinary research field involving a high diversity of chiral compounds including commercial substances with industrial applications pharmaceuticals and new chiral compounds with promising biological activities

Thin Layer Chromatography in Chiral Separations and Analysis Teresa Kowalska, Joseph Sherma, 2007-06-22 Thin layer chromatography TLC is well suited for performing enantioseparations for research as well as larger scale applications A fast inexpensive and versatile separation technique there are many practical considerations that contribute to its effectiveness Thin Layer Chromatography in Chiral Separations and Analysis is the first bo

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