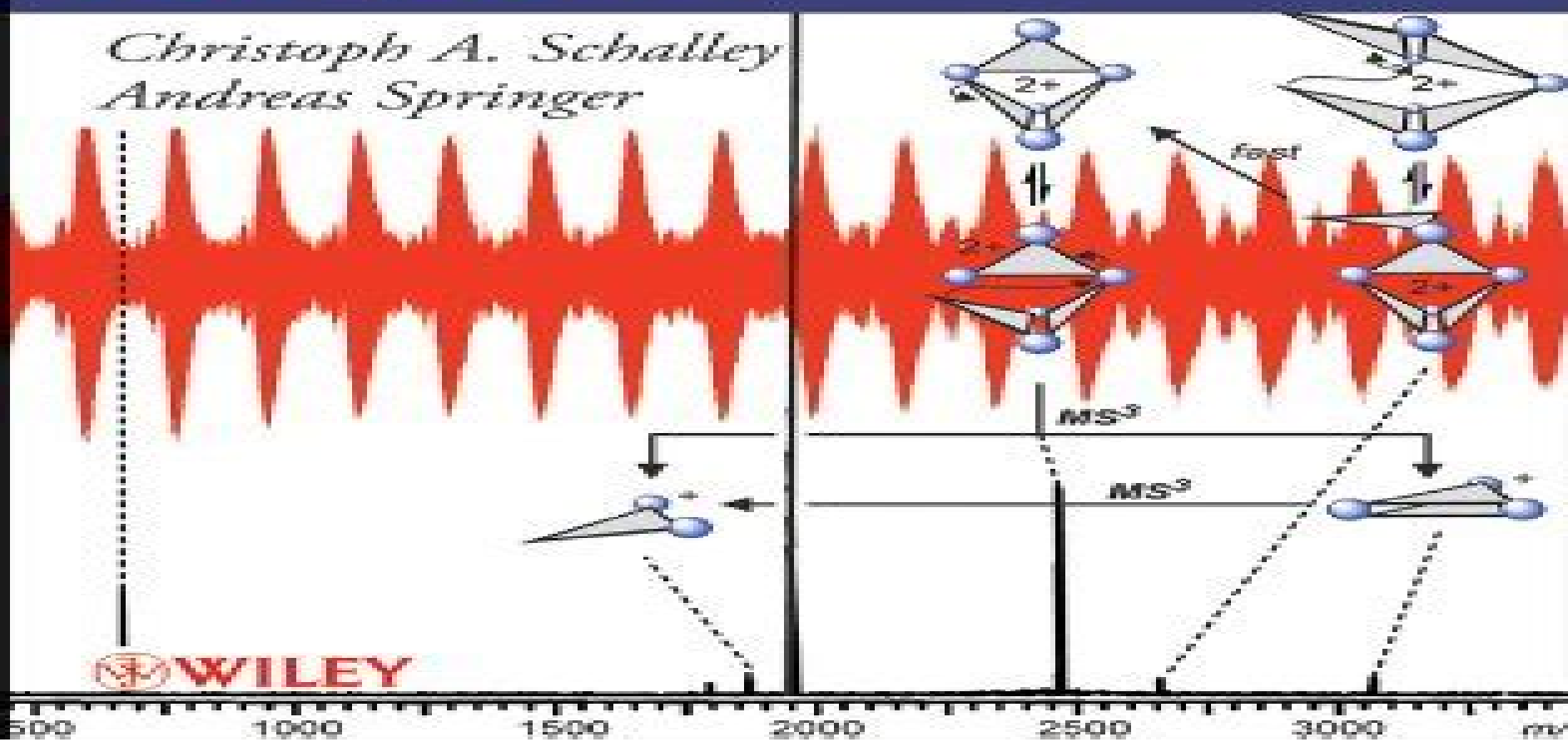


Mass Spectrometry and Gas-Phase Chemistry of Non-Covalent Complexes

Christoph A. Schalley
Andreas Springer



Mass Spectrometry Of Non Covalent Complexes Supramolecular Chemistry In The Gas Phase

Victor A. Karachevtsev



Mass Spectrometry Of Non Covalent Complexes Supramolecular Chemistry In The Gas Phase:

Mass Spectrometry of Non-Covalent Complexes Christoph A. Schalley, Andreas Springer, 2009-09-08 Details the many benefits of applying mass spectrometry to supramolecular chemistry Except as a method for the most basic measurements mass spectrometry MS has long been considered incompatible with supramolecular chemistry Yet with today s methods the disconnect between these two fields is not warranted Mass Spectrometry and Gas Phase Chemistry of Non Covalent Complexes provides a convincing look at how modern MS techniques offer supramolecular chemists a powerful investigatory toolset Bringing the two fields together in an interdisciplinary manner this reference details the many different topics associated with the study of non covalent complexes in the gas phase The text begins with brief introductions to supramolecular chemistry and such relevant mass spectrometric methods as ionization techniques analyzers and tandem MS experiments The coverage continues with How the analyte s transition into the gas phase changes covalent bonding How limitations and pitfalls in analytical methods may produce data misinterpretations Artificial supramolecular aggregates and their examination Biomolecules their complexes and their examination After the general remarks making up the first section of the book the following sections describe specific experimental procedures and are illustrated with numerous examples and short tutorials Detailed citations end each chapter Mass spectrometrists supramolecular chemists students in these fields and interested readers from other disciplines involving the study of non covalent bonds will all value Mass Spectrometry and Gas Phase Chemistry of Non Covalent Complexes as an innovative and practical resource

Mass Spectrometry of Nucleosides and Nucleic Acids Joseph H. Banoub, Patrick A. Limbach, 2009-12-21 Assembling the work of an international panel of researchers Mass Spectrometry of Nucleosides and Nucleic Acids summarizes and reviews the latest developments in the field and provides a window on the next generation of analysis Beginning with an overview of recent developments the book highlights the most popular ionization methods and illustrates

Biological Mass Spectrometry A.L. Burlingame, 2005-11-28 Describes and integrates the techniques of many advances in both chromatographic and mass spectrometric technologies This book also covers various biophysical applications such as H D exchange for study of conformations protein protein and protein metal and ligand interactions It also describes atto to zepto mole quantitation of ^{14}C and ^3H

Reactive Intermediates Leonardo S. Santos, 2009-11-04 During the last two decades there has been considerable growth in the development of electrospray ionization mass spectrometry ESI MS as a practical method in the study of reaction mechanisms This method allows the interception and characterization of key intermediates either as transient species or as protonated deprotonated forms of neutral species by API MS The outstanding features and advantages of ESI MS make it one of the most suitable tools for the fast screening of intermediates directly from solution providing hitherto unavailable chemical information to organic chemists This monograph provides an overview of the mechanisms involved in ESI MS the historical perspectives before looking further in depth at specific reactions and intermediates Written

by researchers in the field this book is an unique resource for the understanding of this cutting edge technique

Supramolecular Chemistry Stefan Kubik, 2024-07-22 This introductory textbook on supramolecular chemistry is a thoroughly revised and expanded version of the 1st edition originally published in 2020 All chapters have been brought up to date and now include Further Reading sections that highlight relevant developments In addition a new chapter on supramolecular polymers has been added With these changes this book provides an even more comprehensive introduction to the exciting field of supramolecular chemistry than before Readers will learn what forces hold supramolecular architectures together how supramolecular systems are created and characterized how molecular switches motors transporters catalysts chemosensors and other functional systems work and where supramolecular chemistry can play or already plays a role in our lives In 2022 the first edition of this book won the Literature Prize of the German Chemical Industry Association VCI For the full press release in German https://www.vci.de/fonds/presse/und/infos/pressemitteilungen/preisgeld_fuer_supramolekuele.jsp

Cucurbiturils and Related Macrocycles Kimoon Kim, 2019-11-06 This book provides a complete overview of cucurbituril chemistry covering fundamental aspects including history synthesis and host guest chemistry

Analytical Methods in Supramolecular Chemistry Christoph A. Schalley, 2007-02-27 An overview of the techniques used to examine supramolecular aggregates from a methodological point of view Edited by a rising star in the community and an experienced author this is a definitive survey of useful modern analytical methods for understanding supramolecular chemistry from NMR to single molecule spectroscopy from electron microscopy to extraction methods A definitive study of this field touching many interdisciplinary areas such as molecular devices biology bioorganic chemistry material science and nanotechnology

Biophysical Approaches Determining Ligand Binding to Biomolecular Targets Alberto Podjarny, Annick P. Dejaegere, Bruno Kieffer, 2011-04-01 The binding of small ligands to biological molecules is central to most aspects of biological function The past twenty years has seen the development of an increasing armoury of biophysical methods that not only detect such binding but also provide varying degrees of information about the kinetics thermodynamics and structural aspects of the process These methods have received increasing attention with the growth in more rational approaches to drug discovery and design This book reviews the latest advances in the application of biophysics to the study of ligand binding It provides a complete overview of current techniques to identify ligands characterise their binding sites and understand their binding mechanisms Particular emphasis is given to the combined use of different techniques and their relative strengths and weaknesses Consistency in the way each technique is described makes it easy for readers to select the most suitable protocol for their research The introduction explains why some techniques are more suitable than others and emphasizes the possible synergies between them The following chapters all written by a specialist in the particular technique focus on each method individually The book finishes by describing how several complementary techniques can be used together for maximum effectiveness This book is suitable for biomolecular scientists at graduate or

post doctoral level in academia and industry Biologists and chemists will also find it a useful introduction to the techniques available

Nanomaterials Imaging Techniques, Surface Studies, and Applications Olena Fesenko, Leonid Yatsenko, Mikhaylo Brodin, 2013-08-13 This book presents cutting edge research on a wide range of nanotechnology techniques and applications It features contributions from scientists who participated in the International Summer School Nanotechnology From Fundamental Research to Innovations in Bukovel Ukraine on August 26 September 2 2012 funded by the European Commission FP7 project Nanotwinning implemented by the Institute of Physics of National Academy of Sciences of Ukraine and partner institutions University of Tartu Estonia European Profiles A E Greece University of Turin Italy and Universit Pierre et Marie Curie France Worldwide experts present the latest results on such key topics as microscopy of nanostructures nanocomposites nanostructured interfaces and surfaces nanooptics nanoplasmonics and enhanced vibrational spectroscopy Imaging technique coverage ranges from atomic force microscopy and spectroscopy multiphoton imagery and laser diagnostics of nanomaterials and nanostructures to resonance Raman and SERS for surface characterization and scanning tunneling microscopy of organic molecules The breadth of topics highlights the exciting variety of research currently being undertaken in this field and suggests new opportunities for interdisciplinary collaboration and future research

Mass Spectrometry for the Novice John Greaves, 2013-10-16 With usage of mass spectrometry continually expanding an increasing number of scientists technicians students and physicians are coming into contact with this valuable technique Mass spectrometry has many uses both qualitative and quantitative from analyzing simple gases to environmental contaminants pharmaceuticals and complex biopolymers The extraordinary versatility can make mass spectrometers daunting to novices Consequently new users would benefit greatly from an understanding of the basic concepts as well as the processes that occur in these instruments Mass Spectrometry for the Novice provides exactly that with detailed straightforward descriptions and clear illustrations of principles of operations and techniques The book begins with an overview that includes essential definitions and then provides information on the components of and the strategies used in the most common instruments The authors discuss the methodologies available classes of compounds analyzed and the types of data that can be generated A group of representative applications from published articles is summarized demonstrating the diversity of mass spectrometry The authors also condense the essentials of the topic into one invaluable chapter that provides a set of concise take home messages on all aspects of mass spectrometry The final section provides a collection of resources including books reviews and useful websites Using simple language new color figures clever cartoons and assuming no prior knowledge this book provides a readily understandable entrance to mass spectrometry Downloadable resources with selected figures and cartoons is included

Nanobiophysics Victor A. Karachevtsev, 2016-01-05 Nanobiophysics is a new branch of science that operates at the interface of physics biology chemistry material science nanotechnology and medicine This book is the first one devoted to nanobiophysics and introduces this field with a focus on

some selected topics related to the physics of biomolecular nanosystems including nucleosomal DNA and **Mass Spectrometry in Cancer Research** John Roboz, 2002-03-25 Cancer research is becoming multidisciplinary The complex structural and therapeutic problems require synergistic approaches employing an assortment of biochemical manipulations chromatographic or electrophoretic separations sequencing strategies and more and more mass spectrometry Mass Spectrometry in Cancer Research provides a broad Practical Aspects of Computational Chemistry Jerzy Leszczynski, Manoj Shukla, 2009-10-03 Practical Aspects of Computational Chemistry presents contributions on a range of aspects of Computational Chemistry applied to a variety of research fields The chapters focus on recent theoretical developments which have been used to investigate structures and properties of large systems with minimal computational resources Studies include those in the gas phase various solvents various aspects of computational multiscale modeling Monte Carlo simulations chirality the multiple minima problem for protein folding the nature of binding in different species and dihydrogen bonds carbon nanotubes and hydrogen storage adsorption and decomposition of organophosphorus compounds X ray crystallography proton transfer structure activity relationships a description of the REACH programs of the European Union for chemical regulatory purposes reactions of nucleic acid bases with endogenous and exogenous reactive oxygen species and different aspects of nucleic acid bases base pairs and base tetrads Mass Spectrometry Jürgen H Gross, 2017-06-13 This book offers a balanced mixture of practice oriented information and theoretical background as well as numerous references clear illustrations and useful data tables Problems and solutions are accessible via a special website This new edition has been completely revised and extended it now includes three new chapters on tandem mass spectrometry interfaces for sampling at atmospheric pressure and inorganic mass spectrometry *Artificial Receptors for Chemical Sensors* Vladimir M. Mirsky, Anatoly Yatsimirsky, 2010-12-20 The first to provide systematically organized information on all three important aspects of artificial receptor design this book brings together knowledge on an exceptionally hot and multidisciplinary field of research Strong emphasis is placed on the methodology for discovering artificial receptors with both definitions for chemosensitivity as well as experimental setups supplied There follows coverage of numerous classes of artificial receptors including synthesis immobilization on surfaces and quantitative data on properties The third part of the book focuses on receptor arrays for artificial nose and tongue applications and the whole is rounded off with an outlook and an appendix with all relevant quantitative data on artificial receptors **Applications of MALDI-TOF Spectroscopy** Zongwei Cai, Shuying Liu, 2014-07-08 MALDI ToF Mass Spectrometry for Studying Noncovalent Complexes of Biomolecules by Stefanie M dler Elisabetta Boeri Erba Renato Zenobi Application of MALDI TOF Mass Spectrometry to Proteome Analysis Using Stain Free Gel Electrophoresis by Iuliana Susnea Bogdan Bernevic Michael Wicke Li Ma Shuying Liu Karl Schellander Michael Przybylski MALDI Mass Spectrometry for Nucleic Acid Analysis by Xiang Gao Boon Huan Tan Richard J Sugrue Kai Tang Determination of Peptide and Protein Disulfide Linkages by MALDI Mass Spectrometry by

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Ruthenium-Containing Polymers Ulrich S. Schubert, Andreas Winter, George R. Newkome, 2021-06-17 This book presents the synthetic methodologies as well as the properties and potential usage of various ruthenium containing materials Starting from the first examples of ruthenopolymers reported in the 1970s to the 3D architectures now synthesized these materials have shown their importance far beyond fundamental polymer science As well as highlighting the remarkable properties and versatile applications this book also addresses a key question related to the applications of such heavy metal containing materials from the perspective of achieving a sustainable future This book is of interest to both materials scientists and chemists in academia and industry

Chemical Approaches to the Stabilization of Non-covalent Complexes in Matrix-assisted Laser Desorption/ionization Mass Spectrometry Anne Marie Distler, 2003 *Protein and Peptide Mass Spectrometry in Drug Discovery* Michael L. Gross, Guodong Chen, Birendra Pramanik, 2011-09-26 The book that highlights mass spectrometry and its application in characterizing proteins and peptides in drug discovery An instrumental analytical method for quantifying the mass and characterization of various samples from small molecules to large proteins mass spectrometry MS has become one of the most widely used techniques for studying proteins and peptides over the last decade Bringing together the work of experts in academia and industry Protein and Peptide Mass Spectrometry in Drug Discovery highlights current analytical approaches industry practices and modern strategies for the characterization of both peptides and proteins in drug discovery Illustrating the critical role MS technology plays in characterizing target proteins and protein products the methods used ion mobility and the use of microwave radiation to speed proteolysis the book also covers important emerging applications for neuroproteomics and antigenic peptides Placing an emphasis on the pharmaceutical industry the book stresses practice and applications presenting real world examples covering the most recent advances in mass spectrometry and providing an invaluable resource for pharmaceutical scientists in industry and academia analytical and bioanalytical chemists and researchers in protein science and proteomics

Ullmann's Fine Chemicals Wiley-VCH, 2014-01-07 A compilation of 76 articles from the ULLMANN s Encyclopedia of Industrial Chemistry this three volume handbook contains a wealth of information on the production and industrial use of more than 2 000 of the most important fine chemicals from Alcohols to Urea Derivatives Chemical and physical characteristics production processes and production figures main uses toxicology and safety information are all found here in one single resource

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