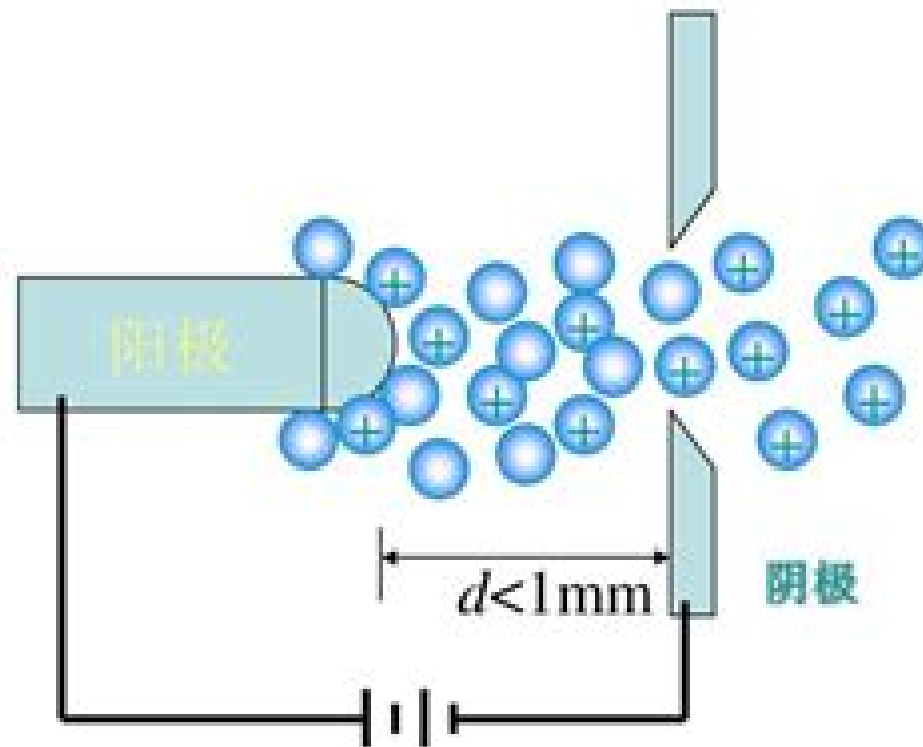


Field ionization (FI)

Field ionization (FI) is a method that uses very strong electric fields to produce ions from gas-phase molecules.



Principles Of Field Ionization And Field Desorption Mass Spectroscopy

Christopher R.B Merritt



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Ionization Methods in Organic Mass Spectrometry Alison E Ashcroft, 2007-10-31 *Ionization Methods in Organic Mass Spectrometry* is a basic practical guide for scientists of all disciplines who wish to analyse samples by organic mass spectrometry Concentrating on instrumental operation this book gives step by step instructions on how to set up and how to achieve the best results using a range of ionization methods including atmospheric pressure chemical ionization electrospray ionization and matrix assisted laser desorption ionization *Ionization Methods in Organic Mass Spectrometry* will enable a beginner or practitioner with limited experience to choose the most appropriate ionization technique in application areas such as biomolecules drugs and metabolites pesticides polymers and many other organic compounds It will be a valuable practical guide for technicians graduates students or researchers or indeed anyone new to practical organic mass spectrometry

Principles of Field Ionization and Field Desorption Mass Spectroscopy Hans-Dieter Beckey, 1977 **Field Desorption Mass Spectrometry** Laszlo Prokai, 1989-12-11

The Encyclopedia of Mass Spectrometry, 2015-12-04 Volume 9 Historical Perspectives Part A The Development of Mass Spectrometry of *The Encyclopedia of Mass Spectrometry* describes and analyzes the development of many aspects of Mass Spectrometry Beginning with the earliest types of Mass Analyzers *Historical Perspectives* explores the development of many different forms of analytical processes and methods The work follows various instruments and interfaces to the current state of detectors and computerization It traces the use of Mass Spectrometry across many different disciplines including Organic Chemistry Biochemistry and Proteomics Environmental Mass Spectrometry Forensic Science Imaging Medical Monitoring and Diagnosis Earth and Planetary Sciences and Nuclear Science Finally the book covers the history of manufacturers and societies as well as the professionals who form the Mass Spectrometry community Also available Volume 9 Historical Perspectives Part B Notable People in Mass Spectrometry briefly reviews the lives and works of many of the major people who carried out this development Preserves the history and development of Mass Spectrometry for use across scientific fields Written and edited by Mass Spectrometry experts Coordinates with Volume 9 Historical Perspectives Part B Notable People in Mass Spectrometry a collection of short biographies on many of the major people who

carried out this development *Principles of Field Ionization and Field Desorption Mass Spectrometry* H. D. Beckey, Hans-D Beckey, 1971 Field Ionization Mass Spectrometry focuses on developments in field ionization FI mass spectrometry and describes its applications in physical chemistry with emphasis on mass spectrometric problems Physico chemical problems as well as problems of chemical analysis are considered based on issues such as the probability of field ionization field dissociation and charge distribution kinetics of ion decomposition in high fields negative ions surface diffusion activation of FI emitters and elucidation of the structures of organic compounds This book is comprised of four chapters and begins with a short review on some of the most important directions of research in FI mass spectrometry Two main fields of research are discussed physico chemical investigations and quantitative analysis or structural determination of organic substances The next chapter is devoted to focusing and non focusing sources of FI and covers topics such as methods for

Mass Spectrometry of Polymers Giorgio Montaudo, Robert P. Lattimer, 2001-10-29 Mass Spectrometry MS has rapidly become an indispensable tool in polymer analysis and modern MS today complements in many ways the structural data provided by Nuclear Magnetic Resonance NMR and Infrared IR methods Recent advances have sparked a growing interest in this field and established a need for a summary of progress made and results Ion/Molecule Attachment Reactions: Mass Spectrometry Toshihiro Fujii, 2015-08-03 This book explores the mechanism of alkali metal ion molecule association reaction surveys the instrumental basis to study its kinetic and describes the instrumentation to the measurement of alkali metal ion affinities The applications of the ion complexation mechanism in the condensed phase in reaction to direct analysis MS are also covered Other topics include mechanism and reaction rate experimental and theoretical ion affinities applications of ion attachment reactions IAR to mass spectrometry such as alkali ion CIMS ion attachment MS and cationization mass spectrometry of ESI FAB FD LD MALDI and SIMS and topics of IAR based direct analysis mass spectrometry **Mass Spectrometry** Jürgen H Gross, 2006-04-05 Mass Spectrometry is an ideal textbook for students and professionals as well as newcomers to the field Starting from the very first principles of gas phase ion chemistry and isotopic properties the textbook takes the reader through the design of mass analyzers and ionization methods all the way to mass spectral interpretation and coupling techniques Step by step the reader learns how mass spectrometry works and what it can do The book comprises a balanced mixture of practice oriented information and theoretical background It features a clear layout and a wealth of high quality figures Exercises and solutions are located on the Springer Global Web **Field Ionization Mass Spectrometry** Hans-D. Beckey, 2017-02-22 Field Ionization Mass Spectrometry focuses on developments in field ionization FI mass spectrometry and describes its applications in physical chemistry with emphasis on mass spectrometric problems Physico chemical problems as well as problems of chemical analysis are considered based on issues such as the probability of field ionization field dissociation and charge distribution kinetics of ion decomposition in high fields negative ions surface diffusion activation of FI emitters and elucidation of the structures of organic compounds This book is comprised of four chapters and begins with a short review on some of the most important directions of research in FI mass spectrometry Two main fields of research are discussed physico chemical investigations and quantitative analysis or structural determination of organic substances The next chapter is devoted to focusing and non focusing sources of FI and covers topics such as methods for

production of FI tips and thin wires together with the use of tips and carbon filaments as FI emitters The last two chapters focus on the application of the FI mass spectrometer to physico chemical problems and to quantitative analysis of homologous series of organic substances such as alkanes alkenes alkynes amines and alcohols This monograph is intended primarily for chemists and mass spectrometrists

Practical Aspects of Trapped Ion Mass Spectrometry, Volume IV

Raymond E. March, John F.J. Todd, 2010-05-25 Reflecting the substantial increase in popularity of quadrupole ion traps and Fourier transform ion cyclotron resonance FT ICR mass spectrometers Practical Aspects of Trapped Ion Mass Spectrometry Volume IV Theory and Instrumentation explores the historical origins of the latest advances in this expanding field It covers new methods for trapping

Progress in the Chemistry of Organic Natural Products 100 A. D. Kinghorn, H. Falk, J.

Kobayashi, 2014-11-17 The volumes of this classic series now referred to simply as Zechmeister after its founder L

Zechmeister have appeared under the Springer Imprint ever since the series inauguration in 1938 It is therefore not really surprising to find out that the list of contributing authors who were awarded a Nobel Prize is quite long Kurt Alder Derek H R Barton George Wells Beadle Dorothy Crowfoot Hodgkin Otto Diels Hans von Euler Chelpin Paul Karrer Luis Federico Leloir Linus Pauling Vladimir Prelog with Walter Norman Haworth and Adolf F J Butenandt serving as members of the editorial board The volumes contain contributions on various topics related to the origin distribution chemistry synthesis biochemistry function or use of various classes of naturally occurring substances ranging from small molecules to biopolymers Each contribution is written by a recognized authority in his field and provides a comprehensive and up to date review of the topic in question Addressed to biologists technologists and chemists alike the series can be used by the expert as a source of information and literature citations and by the non expert as a means of orientation in a rapidly developing discipline

Mass Spectrometry in Polymer Chemistry Christopher Barner-Kowollik, Till Gruending, Jana Falkenhagen, Steffen

Weidner, 2012-01-10 Combining an up to date insight into mass spectrometric polymer analysis beyond MALDI with application details of the instrumentation this is a balanced and thorough presentation of the most important and widely used mass spectrometric methods Written by the world's most proficient experts in the field the book focuses on the latest developments covering such technologies and applications as ionization protocols tandem and liquid chromatography mass spectrometry gas phase ion separation techniques and automated data processing Chapters on sample preparation polymer degradation and the usage of mass spectrometric tools on an industrial scale round off the book As a result both entrants to the field and experienced researchers are able to choose the appropriate methods and instrumentations and to assess their respective strengths and limitations for the characterization of polymer compounds

Analysis of Neuropeptides by

Liquid Chromatography and Mass Spectrometry D.M. Desiderio, 2000-04-01 Analysis of Neuropeptides by Liquid

Chromatography and Mass Spectrometry *Mass Spectrometry* A. M. Lawson, 2021-03-22 No detailed description available for Mass Spectrometry *Encyclopedia of Spectroscopy and Spectrometry*, 2016-09-22 This third edition of the

Encyclopedia of Spectroscopy and Spectrometry Three Volume Set provides authoritative and comprehensive coverage of all aspects of spectroscopy and closely related subjects that use the same fundamental principles including mass spectrometry imaging techniques and applications It includes the history theoretical background details of instrumentation and technology and current applications of the key areas of spectroscopy The new edition will include over 80 new articles across the field These will complement those from the previous edition which have been brought up to date to reflect the latest trends in the field Coverage in the third edition includes Atomic spectroscopy Electronic spectroscopy Fundamentals in spectroscopy High Energy spectroscopy Magnetic resonance Mass spectrometry Spatially resolved spectroscopic analysis Vibrational rotational and Raman spectroscopies The new edition is aimed at professional scientists seeking to familiarize themselves with particular topics quickly and easily This major reference work continues to be clear and accessible and focus on the fundamental principles techniques and applications of spectroscopy and spectrometry Incorporates more than 150 color figures 5 000 references and 300 articles for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Presents a one stop resource for quick access to answers and an in depth examination of topics in the spectroscopy and spectrometry arenas

Liquid Chromatography/Mass Spectrometry Alfred L. Yergey, Charles G. Edmonds, Ivor A.S. Lewis, Marvin L. Vestal, 2013-12-14 This book is intended both to be an introduction to techniques and applications of liquid chromatography mass spectrometry and to serve as a reference for future workers When we undertook its writing we chose not to cover the field particularly applications exhaustively Rather we wished to produce a book that would be of use to people just beginning to use the technique as well as to more advanced practitioners In this regard we have sought to highlight techniques and applications that are of current importance while not neglecting descriptions of approaches that may be of significance in the future We hope that we have succeeded in this At the same time we hope that the bibliography with indexes classified by author and title will make this book of value to those who may disagree with our emphasis

ACKNOWLEDGMENTS One of us C G E wishes to acknowledge the encouragement of Professor J A McCloskey in undertaking this project All four of us are grateful for the continuous and expert assistance of V A Edmonds in the preparation of the Bibliography Alfred L Yergey Bethesda Maryland Charles G Edmonds Richland Washington Ivor A S Lewis London England Marvin L Vestal Houston Texas v

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Mass Spectrometry Christopher R.B Merritt, 1979-02-01

Fundamentals of Contemporary Mass Spectrometry Chhabil Dass, 2007-05-11 Modern mass spectrometry the instrumentation and applications in diverse fields Mass spectrometry has played a pivotal role in a variety of scientific disciplines Today it is an integral part of proteomics and drug discovery process Fundamentals of Contemporary Mass Spectrometry gives readers a concise and authoritative overview of modern mass spectrometry

instrumentation techniques and applications including the latest developments After an introduction to the history of mass spectrometry and the basic underlying concepts it covers Instrumentation including modes of ionization condensed phase ionization techniques mass analysis and ion detection tandem mass spectrometry and hyphenated separation techniques Organic and inorganic mass spectrometry Biological mass spectrometry including the analysis of proteins and peptides oligosaccharides lipids oligonucleotides and other biological materials Applications to quantitative analysis Based on proven teaching principles each chapter is complete with a concise overview highlighted key points practice exercises and references to additional resources Hints and solutions to the exercises are provided in an appendix To facilitate learning and improve problem solving skills several worked out examples are included This is a great textbook for graduate students in chemistry and a robust practical resource for researchers and scientists professors laboratory managers technicians and others It gives scientists in diverse disciplines a practical foundation in modern mass spectrometry Mass Spectrometry James Barker, 1999-02-02 Dies ist die zweite Ausgabe des ACOL Titels ber Massenspektrometrie Sie wurde auf den neuesten Stand gebracht um die die mit der Anwendung oder dem Studium der Massenspektroskopie beginnen zeitgem an das Thema heranzuf hren Der Autor deckt in den Kapiteln ber Ionenquellen und Verfahren der Ionisierung Massenanalyse Ionennachweis und Fragmentierungsmuster die Grundlagen des Themas ab schlie t aber auch Kapitel ber Tandem Techniken Gas und Fl ssigkeitschromatographie Massenspektrometrie und Massenspektrometrie Massenspektrometrie und ber atomare Massenspektrometrie einschlie lich induktiv gekoppelter Plasma Massenspektrometrie ICPMS ein Wie bei allen B chern der ACOL Reihe sind Fragen zur Selbst berpr fung und deren L sungen enthalten

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