

Fast Atom Bombardment Mass Spectrometry

For many years now mass spectrometry has held the position of an established physical technique for molecular weight and structure determination in the study of complex compounds. It is used either as a "stand alone" method, where purified materials are examined, or as a structure-sensitive detector in combination with some suitable chromatographic separation method.

A typical mass spectrometric experiment consists of presenting the material under examination, in the gas phase, to the high vacuum region of the ion source of the instrument. Here the molecules are ionized, usually by allowing them to interact with a beam of electrons, typically in the energy region of 70–100 eV. Radical molecular ions are formed with a range of excitation energies, and these can decompose to give structurally significant fragment ions as in Equation 1.



Emanating from this ion source is a mixture of molecular ions, which give molecular weight information, and fragment ions, which contain the structural information. This mixture is then separated by the mass analyzer to give a spectrum of abundance of ions (ion current) vs. mass-to-charge ratio. An examination of this spec-

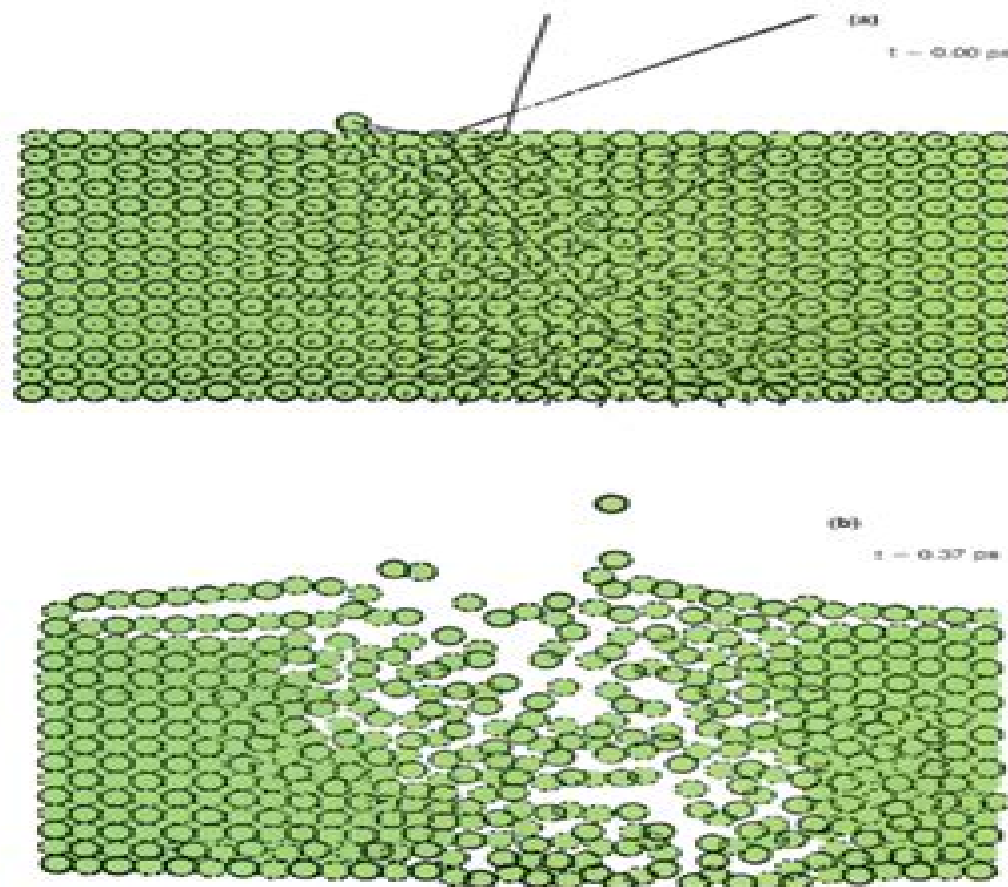


Figure 1. Two-dimensional molecular dynamics calculation (a) of the sputtering of solid KCl by 1.33 keV Ar⁺ incident at 20° to the surface at $t = 0$ s. (a). Note the eventual upward movement of some particles from the initial crater and the commencement of surface peeling away from the impact site after 0.37 ps (b).

Continuous Flow Fast Atom Bombardment Mass Spectrometry

Richard Caprioli, Michael L. Gross



Continuous Flow Fast Atom Bombardment Mass Spectrometry:

Continuous-flow Fast Atom Bombardment Mass Spectrometry R. M. Caprioli, 1998 *Continuous Flow Fast Atom Bombardment and Electrospray Ionization Mass Spectrometry in Natural Products Research* Katarzyna Janota, 1995

Continuous flow fast atom bombardment CF FAB has been applied as a liquid chromatography mass spectrometry LC MS and liquid chromatography mass spectrometry mass spectrometry LC MS MS interface in natural products research Initial studies concentrated on characterization of the interface optimization of operational parameters and sensitivity assessment Using a CF FAB interface femtomole quantities of different classes of compounds were detected which is two orders of magnitude more sensitive than by standard FAB Later CF FAB was applied to the analysis of didemnin streptovaricin and ecteinascidin mixtures in isocratic and or gradient modes The first application led to the discovery of acyclo desHIP didemnin A in a mixture of didemnins cyclic peptides of potent antitumor and antiviral activity Although related to didemnins the linear peptide was biologically inactive The second application project involved streptovaricins secondary metabolites of *Streptomyces spectabilis* In the streptovaricin mixture besides streptovaricins protostreptovaricins III and IV were detected by LC CF FABMS The presence of protostreptovaricins in the streptovaricin complex confirmed the biosynthetic pathway proposed for streptovaricin C Even though these precursors were known previously they were not observed as components of the mixture by standard FABMS When ecteinascidins were analyzed by LC CF FABMS the most significant difference was the amount of structural information generated in the low mass range in comparison to the standard FAB spectra The hydrates of structurally significant fragment ions were observed when the background was subtracted The use of a CF FAB interface was extended to on line high resolution mass measurements of different components in the mixture Mass measurements were within the range of acceptable error On line LC CF FABMS MS was performed on the ecteinascidin mixture using B E linked scans Observed ions were then classified as group characteristic or compound specific Finally CF FAB was compared to electrospray ionization ESI as an LC MS and LC MS MS interface with respect to sensitivity and structural information In the selected ion chromatogram mode the sensitivity of CF FAB is comparable to that of LC ESIMS However identification of unknowns is more feasible by LC ESIMS than by LC CF FABMS Also the daughter ion mass spectra can be produced even on trace amounts by LC ESIMS MS and are of better quality than by LC CF FABMS MS In LC ESIMS MS similar structural information is obtained however the main difference is the relative intensities of the fragment ions Several new ecteinascidins were observed by LC ESIMS Their structures are proposed on the basis of LC ESIMS MS data

Continuous-Flow Fast Atom Bombardment Mass Spectrometry R. M. Caprioli, 1990-12-31 Based on presentations made at a workshop on Continuous Flow Fast Atom Bombardment held in Annapolis Maryland in November 1989 Expanded and edited the papers presented at the workshop form a compact volume reflecting recent advances in a number of key areas in the field of continuous flow fast atom bombardment mass spectrometry Topics cover non aqueous applications biological

process monitoring trace analysis and design and operational conditions *Continuous-flow Fast Atom Bombardment Liquid Chromatography-mass Spectrometry in Bioanalysis* Paula S. Kokkonen,1991 **Mass Spectrometry of Peptides** Dominic M. Desiderio,1990-11-14 The purpose of this book is to collect into one volume the research done on the mass spectrometry of peptides It balances a range of topics including theory instrumentation analytical techniques and biological applications The scope of the work contains three major sections ionization methods instrumental developments and analysis of peptides It describes ^{252}Cf plasma desorption and laser induced multiphoton ionization methodology This exciting resource covers many new areas including continuous flow FAB quantification of human neuropeptides and peptide mapping It also discusses Q FTMS cross links and metal ions **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 *Mass Spectrometry* Jürgen H Gross,2011-01-19 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 Capillary Electrophoresis Patrick Camilleri,1997-11-25 The importance of capillary electrophoresis CE as an analytical tool has increased dramatically over the last ten years It has changed from being an exploratory technique mainly of academic interest to one that is applied to solve real analytical problems CE is easily adapted to its various modes of operation often requiring little more than a change of the buffer solution and is quickly becoming the preferred technique when analyzing minute amounts of available material Featuring new chapters on CE analysis of inorganic ions and carbohydrates the new edition of Capillary Electrophoresis not only presents this method as an academic tool but also provides applications for solving real world

analytical problems This updated Second Edition reflects the increasing use of CE over the last 10 years how it is being applied and the basic theoretical aspects of the separation and detection methodology of CE Capillary Electrophoresis Theory and Practice will appeal to students and professionals of analytical chemistry physical chemistry biochemistry and biotechnology and includes suitable experiments designed to be attempted by university or college students or anyone else wishing to familiarize themselves with CE *Capillary Electrophoresis in Biotechnology and Environmental Analysis* Hasan Parvez,Caudy,Roland-Gosselin,2023-01-06 This text aims to evaluate the actual impact of high performance capillary electrophoresis on analytical biotechnology and environmental analysis The first part of the book presents a survey of present innovations in instrument design and different methods of pre concentration techniques in order to obtain increased separations at higher sensitivities The second part contains articles on applications of HPCE to protein and peptide analysis In the third part applications of HPCE in the investigation of drug abuse and drug interactions are presented The last two parts of the book deal with the use of HPCE at low UV wavelengths and negative UV absorption The book should be of interest to those working in HPCE research and applications **Cumulated Index Medicus** ,1989 The Encyclopedia of Mass Spectrometry Michael L. Gross,Richard Caprioli,2006-12-21 Volume 6 Ionization Methods captures the story of molecular ionization and its phenomenal evolution that makes mass spectrometry the powerful method it is today Chapters 1 and 2 cover fundamentals and various issues that are common to all ionization e g accurate mass isotope clusters and derivatization Chapters 3 9 acknowledge that some ionization methods are appropriate for gas phase molecules and others for molecules that are in the solid or liquid states Chapters 3 6 cover gas phase molecules dividing the subject into 1 ionization of gas phase molecules by particles e g EI 2 ionization by photons 3 ionization by ion molecule and molecule molecule reactions e g APCI and DART and ionization in Strong electric fields i e Electrohydrodynamic and Field Ionization Desorption Ionization in a Strong Electric Field illustrates the transition to ionization of molecules in the solid or liquid states covered in Chapters 7 9 1 spray methods for ionization e g electrospray 2 desorption ionization by particle bombardment e g FAB and 3 desorption by photons e g MALDI Electrospray and MALDI also lead to applications in biophysical chemistry the theme of Chapter 10 Chapter 11 reconsiders ionization from the view of choosing an ionization method The range of subjects is from ionization of organic and biomolecules to the study of microorganisms Advances in Mass Spectrometry I. Cornides,G. Horv?th,K. Vékey,1995-12-05 This indispensable reference source contains the complete texts of the invited plenary and keynote lectures from the 13th International Mass Spectrometry Conference held in the autumn of 1994 It presents a comprehensive account of all methods and applications of mass spectrometry covering the most important developments that have occurred in all fields of this area within the past three years **Development and Optimization of Matrices for Fast Atom Bombardment and Thermally Assisted Fast Atom Bombardment Mass Spectrometry** Curt Einar Heine,1990 *Mass Spectrometry Bulletin* ,1994 FT-ICR/MS Bruce Asamoto,1991 Proceedings of the ...

ASMS Conference on Mass Spectrometry and Allied Topics ,1992 **Mass Spectrometry Reviews** ,1993 The scope of the published reviews include but are not limited to topics such as theoretical treatments instrumental design ionization methods analyzers detectors application to the qualitative and quantitative analysis of various compounds or elements basic ionchemistry and structure studies ion energetic studies and studies on biomolecules polymers etc **The Encyclopedia of Mass Spectrometry: Hyphenated methods** Michael L. Gross,R. M. Caprioli,2003 ASMS Conference on Mass Spectrometry and Allied Topics : [proceedings] ,1987 *The Encyclopedia of Mass Spectrometry* Richard Caprioli,Michael L. Gross,2004-09-27 The focus of Volume 2 of the Encyclopedia of Mass Spectrometry is on peptides and proteins separation techniques preparation protocols and the fundamental characteristics as ionic gas phase species that lie within the breadth of the field of mass spectrometry This volume is divided into four sections experimental approaches and protocols sequence analysis other structural analyses and targeted applications

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