



Capillary Liquid Chromatography

Christine Esther Evans



Capillary Liquid Chromatography:

Capillary Liquid Chromatography Boris Grigor'evich Belen'kiĭ, E.S. Gankina, Èmilii Savel'evna Gankina, 1987-03-31
In the early 1980s capillary liquid chromatography was being established it was a period in which only a few research groups published a relatively small number of papers on the subject Interest has since taken off and a period of intense development to which no end is yet in sight is now upon us More investigators and instrument making firms are now entering the field This greater interest has resulted in the rapid appearance of two collections 1 2 and a series of topical reviews 3 6 However it could hardly be said that all the problems in this area have been formulated let alone solved The preparation of very efficient open tubular or packed microbore columns for example remains more an art than a science while the relationship between radial and longitudinal mass transfer and the effect of transcolumn velocity profiles on chromatographic efficiency have been very poorly studied Indeed recent publications on these subjects have sometimes far from clarifying matters only muddied them further Many instrument making firms are trying to unify their equipment so that it is suitable for microbore conventional analytical and preparative liquid chromatography This approach has not realized the full potential of capillary chromatography and there also remains room for improving the performance of capillary columns

Capillary Liquid Chromatography B.G. Belen'kiĭ, E.S. Gankina, V.G. Mal'tsev, 2013-05-14
In the early 1980s capillary liquid chromatography was being established it was a period in which only a few research groups published a relatively small number of papers on the subject Interest has since taken off and a period of intense development to which no end is yet in sight is now upon us More investigators and instrument making firms are now entering the field This greater interest has resulted in the rapid appearance of two collections 1 2 and a series of topical reviews 3 6 However it could hardly be said that all the problems in this area have been formulated let alone solved The preparation of very efficient open tubular or packed microbore columns for example remains more an art than a science while the relationship between radial and longitudinal mass transfer and the effect of transcolumn velocity profiles on chromatographic efficiency have been very poorly studied Indeed recent publications on these subjects have sometimes far from clarifying matters only muddied them further Many instrument making firms are trying to unify their equipment so that it is suitable for microbore conventional analytical and preparative liquid chromatography This approach has not realized the full potential of capillary chromatography and there also remains room for improving the performance of capillary columns

Advances in Capillary Liquid Chromatography Luke Tempest Tolley, 2001
Capillary Liquid Chromatography Using Micro Size Particles Yanqiao Xiang, 2004
In this dissertation the use of ultrahigh pressures with and without elevated temperatures in capillary LC is described Very fast separations of various samples on silica based stationary phases were achieved using optimized equipment and conditions Great reduction in separation time while maintaining high efficiency is the most significant result of this work

Investigations in Capillary Liquid Chromatography Youwen Mo, 1997
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Molecules Kefei Zheng,1998 **Column Packing Technology in Capillary Electrochromatography and Capillary Liquid Chromatography** Todd Dylan Maloney,2002 **Photothermal Detection Methods for Capillary Liquid Chromatography** Charles Nicholas Kettler,1987 **Fundamental Studies of Capillary Columns in Liquid Chromatography** Christine Esther Evans,1990 *Ultra-high Pressure Capillary Liquid Chromatography* J. Andreas Lippert,1999 **Handbook of Green Analytical Chemistry** Miguel de la Guardia,Salvador Garrigues,2012-04-23 The emerging field of green analytical chemistry is concerned with the development of analytical procedures that minimize consumption of hazardous reagents and solvents and maximize safety for operators and the environment In recent years there have been significant developments in methodological and technological tools to prevent and reduce the deleterious effects of analytical activities key strategies include recycling replacement reduction and detoxification of reagents and solvents The Handbook of Green Analytical Chemistry provides a comprehensive overview of the present state and recent developments in green chemical analysis A series of detailed chapters written by international specialists in the field discuss the fundamental principles of green analytical chemistry and present a catalogue of tools for developing environmentally friendly analytical techniques Topics covered include Concepts Fundamental principles education laboratory experiments and publication in green analytical chemistry The Analytical Process Green sampling techniques and sample preparation direct analysis of samples green methods for capillary electrophoresis chromatography atomic spectroscopy solid phase molecular spectroscopy derivative molecular spectroscopy and electroanalytical methods Strategies Energy saving automation miniaturization and photocatalytic treatment of laboratory wastes Fields of Application Green bioanalytical chemistry biodiagnostics environmental analysis and industrial analysis This advanced handbook is a practical resource for experienced analytical chemists who are interested in implementing green approaches in their work **Capillary Liquid Chromatography and Secondary Ionization Mass Spectrometric Analysis of Peptides and Phospholipids** Hollis Joseph Boss,1992 **Advances In Chromatography** Eli Grushka,Nelu Grinberg,2016-04-19 For more than four decades scientists and researchers have relied on the Advances in Chromatography series for the most up to date information on a wide range of developments in chromatographic methods and applications Volume 44 of this authoritative series once again compiles the work of expert contributors in order to present timely and cutting *Liquid Chromatography* A. Rocco,G. D’Orazio,Z. Aturki,S. Fanali,2013-01-08 Capillary electrochromatography CEC is one of the recently developed miniaturized analytical techniques The separation mechanism involved in the separation process is based mainly on the analytes stationary mobile phase interactions however in the case of charged compounds the different electrophoretic mobilities have to be considered The process takes place in a capillary column containing a selected stationary phase where the mobile phase is delivered by an electro osmotic flow EOF controlled by the application of a relatively high electric field In contrast to what happens in liquid chromatography where the mobile phase possesses a parabolic profile in CEC a plug flow profile is

observed that helps achieve a higher efficiency This overview includes the illustration of basic principles of CEC the latest achievements concerning the instrumentation used stationary phases columns detectors hyphenation description of method optimization selected examples and some potential uses of CEC in separation science Packed Capillary Columns for Liquid Chromatography William Henry Wilson,1990 *Packed Capillary Liquid Chromatography Electrospray Mass Spectrometry and Tandem Mass Spectrometry of Hydrolysed HT and HQ*. Paul D'Agostino,Defence research establishment suffieldralston (Alta.),1998 Packed capillary column liquid chromatography LC electrospray mass spectrometry ESI MS and tandem mass spectrometry MS MS were used to identify munitions grade mustard hydrolysis products including five longer chain diols two partial hydrolysis products and three ether thioether macrocycles All ESI MS data were collected under collisionally activated dissociation CAD conditions optimized to facilitate acquisition of both molecular and product ion information that could be useful for structural identification purposes Interpretation of the ESI MS data enabled characterization of the diols resulting from hydrolysis of all three principal sulfur vesicants bis 2 chloroethyl sulfide mustard or H bis 2 chloroethylthio ethane sesquimustard or Q and bis 2 CHLOROETHYLTHIO ETHYLEther T as well as novel products not previously associated with sulfur vesicant hydrolysis The reported ESI MS data could prove valuable for the identification of thiodiglycol and other sulfur vesicant hydrolysis products in samples collected by the Canadian Forces during base cleanup operations or in support of United Nations Chemical Weapons Convention inspections Protein Sequencing and Identification Using Tandem Mass Spectrometry Michael Kinter,Nicholas E. Sherman,2005-03-29 How to design execute and interpret experiments for protein sequencing using mass spectrometry The rapid expansion of searchable protein and DNA databases in recent years has triggered an explosive growth in the application of mass spectrometry to protein sequencing This timely and authoritative book provides professionals and scientists in biotechnology research with complete coverage of procedures for analyzing protein sequences by mass spectrometry including step by step guidelines for sample preparation analysis and data interpretation Michael Kinter and Nicholas Sherman present their own high quality laboratory tested protocols for the analysis of a wide variety of samples demonstrating how to carry out specific experiments and obtain fast reliable results with a 99% success rate Readers will get sufficient experimental detail to apply in their own laboratories learn about the proper selection and operation of instruments and gain essential insight into the fundamental principles of mass spectrometry and protein sequencing Coverage includes Peptide fragmentation and interpretation of product ion spectra Basic polyacrylamide gel electrophoresis Preparation of protein digests for sequencing experiments Mass spectrometric analysis using capillary liquid chromatography Techniques for protein identification by database searches Characterization of modified peptides using tandem mass spectrometry And much more Capillary Liquid Chromatography Using Laser-based and Mass Spectrometric Detection. [Capillary Zone Electrophoresis (CZE) ; Micellar Electrokinetic Capillary Kchromatography (MECC)]. ,1992 In the years following the 1986 seminal paper J Chromatogr Sci 24

347 352 describing modern capillary zone electrophoresis CZE the prominence of capillary electrokinetic separation techniques has grown A related electrochromatographic technique is micellar electrokinetic capillary chromatography MECC This report presents a brief synopsis of research efforts during the current 3 year period In addition to a description of analytical separations based research results of efforts to develop and expand spectrometric detection for the techniques is reviewed Laser fluorometric detection schemes have been successfully advanced Mass spectrometric research was less fruitful largely owing to personnel limitations A regenerable fiber optic sensor was developed that can be used to remotely monitor chemical carcinogens etc DLC

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