

Editors

Eunice C. Y. Li-Chan, Peter R. Griffiths and John M. Chalmers



Applications of Vibrational Spectroscopy in Food Science

Volume I

Instrumentation and
Fundamental Applications

 WILEY

Applications Of Vibrational Spectroscopy In Food Science

Y. H. Hui, Frank Sherkat



Applications Of Vibrational Spectroscopy In Food Science:

Applications of Vibrational Spectroscopy in Food Science, 2 Volume Set Eunice Li-Chan, John M. Chalmers, Peter R. Griffiths, 2010-11-01 Bringing several disparate aspects of food science and analysis together in one place Applications of Vibrational Spectroscopy to Food Science provides a comprehensive state of the art text presenting the fundamentals of the methodology as well as underlying current areas of research in food science analysis All of the major spectroscopic techniques are also covered showing how each one can be used beneficially and in a complementary approach for certain applications Case studies illustrate the many applications in vibrational spectroscopy to the analysis of foodstuffs

Applications of Vibrational Spectroscopy in Food Science ,2010 **Applications of Vibrational Spectroscopy in Food Science, 2 Volume Set** Eunice Li-Chan, John M. Chalmers, Peter R. Griffiths, 2010-11-01 Bringing several disparate aspects of food science and analysis together in one place Applications of Vibrational Spectroscopy to Food Science provides a comprehensive state of the art text presenting the fundamentals of the methodology as well as underlying current areas of research in food science analysis All of the major spectroscopic techniques are also covered showing how each one can be used beneficially and in a complementary approach for certain applications Case studies illustrate the many applications in vibrational spectroscopy to the analysis of foodstuffs *Applications of vibrational spectroscopy in food science. 1.*

Instrumentation and fundamental applications Eunice C. Y. Li-Chan, 2010 The book will bring several disparate aspects of food science and analysis together in one place The book will start with chapters on sampling techniques and recent instrumentation for food analysis Descriptions of how vibrational spectroscopy can be used to study and measure changes occurring during cooking processing or storage will follow Finally a dozen or so case studies will be used to illustrate the many applications in vibrational spectroscopy to the analysis of foodstuffs The book will be of benefit both to readers who have not previously considered the potential use of these techniques in the study and quality control of food systems as well as those who have had some experience but perhaps in the context of non food biomaterials or only a specific food commodity group or a specific technique MIR NIR or Raman spectroscopy *Vibrational Spectroscopy in Diagnosis and Screening* Feride Severcan, Parvez I. Haris, 2012 In recent years there has been a tremendous growth in the use of vibrational spectroscopic methods for diagnosis and screening These applications range from diagnosis of disease states in humans such as cancer to rapid identification and screening of microorganisms The growth in such types of studies has been possible thanks to advances in instrumentation and associated computational and mathematical tools for data processing and analysis This volume of *Advances in Biomedical Spectroscopy* contains chapters from leading experts who discuss the latest advances in the application of Fourier transform infrared FTIR Near infrared NIR Terahertz and Raman spectroscopy for diagnosis and screening in fields ranging from medicine dentistry forensics and aquatic science Many of the chapters provide information on sample preparation data acquisition and data interpretation that would be particularly valuable for new users of these

techniques including established scientists and graduate students in both academia and industry

Electromagnetic Technologies in Food Science Vicente M. Gómez-López, Rajeev Bhat, 2021-12-13 A comprehensive source of in depth information provided on existing and emerging food technologies based on the electromagnetic spectrum Electromagnetic Technologies in Food Science examines various methods employed in food applications that are based on the entire electromagnetic EM spectrum Focusing on recent advances and challenges in food science and technology this is an up to date volume that features vital contributions coming from an international panel of experts who have shared both fundamental and advanced knowledge of information on the dosimetry methods and on potential applications of gamma irradiation electron beams X rays radio and microwaves ultraviolet visible pulsed light and more Organized into four parts the text begins with an accessible overview of the physics of the electromagnetic spectrum followed by discussion on the application of the EM spectrum to non thermal food processing The physics of infrared radiation microwaves and other advanced heating methods are then deliberated in detail supported by case studies and examples that illustrate a range of both current and potential applications of EM based methods The concluding section of the book describes analytical techniques adopted for quality control such as hyperspectral imaging infrared and Raman spectroscopy This authoritative book resource Covers advanced theoretical knowledge and practical applications on the use of EM spectrum as novel methods in food processing technology Discusses the latest progress in developing quality control methods thus enabling the control of continuous fast speed processes Explores future challenges and benefits of employing electromagnetic spectrum in food technology applications Addresses emerging processing technologies related to improving safety preservation and overall quality of various food commodities Electromagnetic Technologies in Food Science is an essential reading material for undergraduate and graduate students researchers academics and agri food professionals working in the area of food preservation novel food processing techniques and sustainable food production

Near-Infrared Spectroscopy in Food Science and Technology Yukihiro Ozaki, W. Fred McClure, Alfred A. Christy, 2006-10-25 This reference gives food science professionals a working understanding of near infrared spectroscopy NIRS and its role in maximizing food potential It explains the technical aspects of NIRS including basic principles characteristics of the NIR spectra instrumentation sampling techniques and chemometrics The book details applications of NIRS in agricultural and marine products foodstuffs and processed foods engineering and process monitoring and food safety and disease diagnosis

Infrared and Raman Spectroscopy in Forensic Science John M. Chalmers, Howell G. M. Edwards, Michael D. Hargreaves, 2012-03-05 This book will provide a survey of the major areas in which information derived from vibrational spectroscopy investigations and studies have contributed to the benefit of forensic science either in a complementary or a unique way This is highlighted by examples taken from real case studies and analyses of forensic relevance which provide a focus for current and future applications and developments

Handbook of Food Science, Technology, and Engineering - 4 Volume Set Y. H.

Hui, Frank Sherkat, 2005-12-19 Advances in food science technology and engineering are occurring at such a rapid rate that obtaining current detailed information is challenging at best While almost everyone engaged in these disciplines has accumulated a vast variety of data over time an organized comprehensive resource containing this data would be invaluable to have The **Advances in Food and Nutrition Research** Fidel Toldra, 2021-07-24 Advances in Food and Nutrition Research Volume 97 provides interesting chapters written by an international board of authors The topics covered in this book include the problematics of bacteriophages in dairy plants and methods for their monitorization and control the obtention of antioxidant and antimicrobial compounds from sustainable sources and their application in meat and seafood products the challenges and opportunities for vibrational spectroscopy to measure composition and functional properties of foods the physiological activity of bioactive peptides obtained from meat and meat by products the use of plant and marine based polysaccharides for nano encapsulation and their applications in food industry the effects of early life stress on eating behavior and metabolism considering different factors that control appetite the nutritional aspects of seafood and its health benefits the use of *Colocasia esculenta* L Schott and *Xanthosoma sagittifolium* L Schott powder as a valid option for the nutritional and technological improvement of food products and much more The series provides the latest advances on the identification and characterization of emerging bioactive compounds with putative health benefits and other functional compounds of relevance in foods as well as up to date information on food science including raw materials production processing distribution and consumption Contains contributions that have been carefully selected based on their vast experience and expertise on the subject Includes updated in depth and critical discussions of available information giving the reader a unique opportunity to learn Encompasses a broad view of the topics at hand **Food Authentication** Contantinos A. Georgiou, Georgios P. Danezis, 2017-05-08 The determination of food authenticity is a vital component of quality control Its importance has been highlighted in recent years by high profile cases in the global supply chain such as the European horsemeat scandal and the Chinese melamine scandal which led to six fatalities and the hospitalisation of thousands of infants As well as being a safety concern authenticity is also a quality criterion for food and food ingredients Consumers and retailers demand that the products they purchase and sell are what they purport to be This book covers the most advanced techniques used for the authentication of a vast number of products around the world The reader will be informed about the latest pertinent analytical techniques Chapters focus on the novel techniques markers that have emerged in recent years An introductory section presents the concepts of food authentication while the second section examines in detail the analytical techniques for the detection of fraud relating to geographical botanical species and processing origin and production methods of food materials and ingredients Finally the third section looks at consumer attitudes towards food authenticity the application of bioinformatics to this field and the Editor s conclusions and future outlook Beyond being a reference to researchers working in food authentication it will serve as an essential source to analytical scientists interested in the field

and food scientists to appreciate analytical approaches This book will be a companion to under and postgraduate students in their wander in food authentication and aims to be useful to researchers in universities and research institutions

Handbook of Vibrational Spectroscopy John M. Chalmers, Peter R. Griffiths, 2002 **Biomedical Spectroscopy** Kartha V B, Santhosh C, 2024-12-06 This book discusses biomedical spectroscopy and the applications of spectroscopic techniques in advanced medical technology Applicable to scientists and medical professionals the aim of this work is to enable them to work together in this field so that healthcare facilities can be made routinely available in a cost effective manner especially for developing countries which may not be able to afford universal healthcare with present day expensive medical technologies The subject matter of this book also covers Instrumentation Experimental Techniques and Computational Methods Spectroscopy of Animal Models Microspectroscopy for Biomedical Applications Clinical Applications of Optical Spectroscopy Spectroscopy of Human Models Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan and Bhutan Spectroscopy and Machine Learning Tools for Food Quality and Safety , 2025-08-25 Spectroscopy and Machine Learning Tools for Food Quality and Safety Volume 115 in the Advances in Food and Nutrition Research series highlights new advances in the field with this new volume presenting interesting chapters related to Spectroscopy and Machine Learning Tools Chapters in this new release include NIR applications in livestock farming systems and derived products Fluorescence spectroscopy in grape and wine composition and quality control From Farm to Fork Spectroscopy in Meat Quality and Safety Assurance Raman and Mid infrared in food safety and composition Spectroscopy food functionality and safety and Handheld NIR spectroscopy for real time on site food quality and safety monitoring Provides the latest information on Advances in Food and Nutrition Research Offers outstanding and original reviews on a range of Spectroscopy and Machine Learning Tools for Food Quality and Safety topics Serves as an indispensable reference for researchers and students alike Handbook of Food Analysis - Two Volume Set Leo M.L. Nollet, Fidel Toldra, 2015-06-10 Updated to reflect changes in the industry during the last ten years The Handbook of Food Analysis Third Edition covers the new analysis systems optimization of existing techniques and automation and miniaturization methods Under the editorial guidance of food science pioneer Leo M L Nollet and new editor Fidel Toldra the chapters take an in *Reactions and Mechanisms in Thermal Analysis of Advanced Materials* Atul Tiwari, Baldev Raj, 2015-08-06 Strong bonds form stronger materials For this reason the investigation on thermal degradation of materials is a significantly important area in research and development activities The analysis of thermal stability can be used to assess the behavior of materials in the aggressive environmental conditions which in turn provides valuable information about the service life span of the materiel Unlike other books published so far that have focused on either the fundamentals of thermal analysis or the degradation pattern of the materials this book is specifically on the mechanism of degradation of materials The mechanism of rapturing of chemical bonds as a result of exposure to high temperature environment is difficult to study and resulting mechanistic pathway hard to establish

Limited information is available on this subject in the published literatures and difficult to excavate Chapters in this book are contributed by the experts working on thermal degradation and analysis of the wide variety of advanced and traditional materials Each chapter discusses the material its possible application behavior of chemical entities when exposed to high temperature environment and mode and the mechanistic route of its decomposition Such information is crucial while selecting the chemical ingredients during the synthesis or development of new materials technology

Advances in Near Infrared Spectroscopy and Related Computational Methods Christian Huck,Krzysztof B. Bec,2020-01-03 In the last few decades near infrared NIR spectroscopy has distinguished itself as one of the most rapidly advancing spectroscopic techniques Mainly known as an analytical tool useful for sample characterization and content quantification NIR spectroscopy is essential in various other fields e g NIR imaging techniques in biophotonics medical applications or used for characterization of food products Its contribution in basic science and physical chemistry should be noted as well e g in exploration of the nature of molecular vibrations or intermolecular interactions One of the current development trends involves the miniaturization and simplification of instrumentation creating prospects for the spread of NIR spectrometers at a consumer level in the form of smartphone attachments a breakthrough not yet accomplished by any other analytical technique A growing diversity in the related methods and applications has led to a dispersion of these contributions among disparate scientific communities The aim of this Special Issue was to bring together the communities that may perceive NIR spectroscopy from different perspectives It resulted in 30 contributions presenting the latest advances in the methodologies essential in near infrared spectroscopy in a variety of applications

Encyclopedia of Spectroscopy and Spectrometry ,2010-04-09 The Second Edition of the Encyclopedia of Spectroscopy and Spectrometry pulls key information into a single source for quick access to answers and or in depth examination of topics SPEC 2 covers theory methods and applications for researchers students and professionals combining proven techniques and new insights for comprehensive coverage of the field The content is available in print and online via ScienceDirect the latter of which offers optimal flexibility accessibility and usability through anytime anywhere access for multiple users and superior search functionality No other work gives analytical and physical bio chemists such unprecedented access to the literature With 30% new content SPEC 2 maintains the authoritative balanced coverage of the original work while also breaking new ground in spectroscopic research Incorporates more than 150 color figures 5 000 references and 300 articles 30% of which are new 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 Features a new co editor David Koppenaal of Pacific Northwest National Laboratory Washington USA whose work in atomic mass spectrometry has been recognized internationally

Applications Alfred J. Meixner,Monika Fleischer,Dieter P. Kern,Evgeniya Sheremet,Norman McMillan,2022-12-31 Nanospectroscopy addresses the spectroscopy of very small objects down to single molecules or atoms or high resolution spectroscopy performed on regions

much smaller than the wavelength of light revealing their local optical electronic and chemical properties This work highlights modern examples where optical nanospectroscopy is exploited in photonics optical sensing medicine or state of the art applications in material chemical and biological sciences Examples include the use of nanospectroscopy in such varied fields as quantum emitters dyes and two dimensional materials on solar cells radiation imaging detectors biosensors and sensors for explosives in biomolecular and cancer detection food science and cultural heritage studies Also by the editors Textbook Optical Nanospectroscopy _Fundamentals Methods Vol 1 and _Instrumentation Simulation Materials Vol 2

PlantOmics: The Omics of Plant Science Debmalya Barh, Muhammad Sarwar Khan, Eric Davies, 2015-03-18

PlantOmics The Omics of Plant Science provides a comprehensive account of the latest trends and developments of omics technologies or approaches and their applications in plant science Thirty chapters written by 90 experts from 15 countries are included in this state of the art book Each chapter describes one topic omics such as omics in model plants spectroscopy for plants next generation sequencing functional genomics cyto metagenomics epigenomics miRNAomics proteomics metabolomics glycomics lipidomics secretomics phenomics cytomics physiomics signalomics thiolomics organelle omics micro morphomics microbiomics cryobionomics nanotechnology pharmacogenomics and computational systems biology for plants It provides up to date information technologies and their applications that can be adopted and applied easily for deeper understanding plant biology and therefore will be helpful in developing the strategy for generating cost effective superior plants for various purposes In the last chapter the editors have proposed several new areas in plant omics that may be explored in order to develop an integrated meta omics strategy to ensure the world and earth s health and related issues This book will be a valuable resource to students and researchers in the field of cutting edge plant omics

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