

FTIR

SPECTROSCOPY

for Grape and Wine Analysis



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FTIR spectroscopy can assist the highly diversified and tradition-bound wine industry in meeting product and quality control challenges.

FTIR spectroscopy is a nondestructive technique that provides structural information on molecular features of a large range of compounds. Its main advantages are speed, a high degree of automation, medium resolution, and cost-effectiveness. Recent improvements in instrumentation together with advances in fiber optics and chemometrics have provided an analytical tool that is suitable for routine qualitative analysis and process control in many industries.

Although FTIR spectroscopy is widely applied in the food industry, acceptance of this technology in the grape and wine industry has been relatively slow and mainly

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Arturo Cuomo

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Managing Wine Quality Andrew G. Reynolds, 2010-04-28 Many aspects of both grape production and winemaking influence wine sensory properties and stability Progress in research helps to elucidate the scientific basis of quality variation in wine and suggest changes in viticulture and oenology practices The two volumes of *Managing wine quality* review developments of importance to wine producers researchers and students The focus is on recent studies advanced methods and likely future technologies The first volume *Viticulture and wine quality* opens with chapters reviewing current understanding of wine aroma colour taste and mouthfeel Part two focuses on the measurement of grape and wine properties Topics covered include instrumental analysis of grape must and wine sensory evaluation and wine authenticity and traceability The effects of viticulture technologies on grape composition and wine quality attributes are the subject of part three Terroir viticultural and vineyard management practices fungal contaminants and grape processing equipment are among the areas discussed With authoritative contributions from experts across the world's winemaking regions *Managing wine quality Volume1 Oenology and wine quality* is an essential reference for all those involved in viticulture and oenology wanting to explore new methods understand different approaches and refine existing practices Reviews current understanding of wine aroma colour taste and mouthfeel Details the measurement of grape and wine properties through instrumental analysis must and wine and sensory evaluation Examines viticulture and vineyard management practices fungal contaminants and processing equipment

Basic Protocols in Enology and Winemaking Maurício Bonatto Machado de Castilhos, 2023-05-12 This volume details methods using classical apparatus and mechanisms to study enology and winemaking Chapters guide readers through protocols on titration distillation spectrophotometry advanced methods applying High Performance Liquid Chromatography with Mass Spectrometry HPLC MSn Gas Chromatography coupled with Mass Spectrometry GC MS and Nuclear Magnetic Resonance NMR Authoritative and cutting edge *Basic Protocols in Enology and Winemaking* aims to be a useful and practical guide to new researchers and experts looking to expand their knowledge

American Journal of Enology and Viticulture ,2016 *Quality Control in the Beverage Industry* Alexandru Grumezescu, Alina Maria Holban, 2019-08-15 *Quality Control in the Beverage Industry* volume 17 in the *Science of Beverages* series presents a detailed account of the most common aspects and challenges relating to quality control It covers the latest global trends in how to improve beverages using assessment tools authenticity approaches and novel quality control technologies The book presents a great hands on approach for anyone who needs to understand the big picture regarding analytical methods Topics covered include safety the economic impacts of contamination and detection techniques Provides tools to assess and measure sulfites in beverages using different instrumental techniques Presents the application of nanotechnology for the improvement of beverages including taste structure and overall quality Includes analytical procedures for measuring and controlling quality

The Australian & New Zealand Wine Industry Journal ,2001

Nutraceuticals in Human Health Alessandra Durazzo, Massimo Lucarini, Antonello Santini, 2021-01-21 Nutraceuticals are a challenge for the future of prevention and therapy in healthcare The possibility to prevent and or support pharmacological therapy which is nowadays mainly based on pharmaceuticals can be a powerful tool to face pathological chronic long term diseases in subjects who do not qualify for a pharmacological therapy Nutraceuticals are obtained from vegetal or animal origin foods and prospective research on these products will clarify their role safety and efficacy by substantiating their role with clinical data An effort to clarify their mechanism of action will open a door to the next generation of therapeutic agents that do not propose themselves as an alternative to drugs but instead can be helpful to complement a pharmacological therapy and to prevent the onset of chronic diseases The market as well as the interest of people in naturally derived remedies and less synthetic pharmaceuticals is growing and the attention of the collective public imagination is nowadays more strongly focused on these food derived products This Special Issue is dedicated to the role of and perspectives on nutraceuticals in human health examined from different angles ranging from analytical aspects to clinical trials and from efficacy studies to beneficial effects on health conditions **Biosystems Engineering** ,2010

Electronic Noses and Tongues in Food Science Maria Luz Rodriguez Mendez, 2016-02-19 Electronic Noses and Tongues in Food Science describes the electronic products of advanced chemical and physical sciences combined with intuitive integration of microprocessors advanced bioinformatics and statistics These include for example voltammetric bio electronic piezoelectric platforms made from a variety of components including nanoparticles enzyme biosensors heavy metals graphite epoxy composites metal oxide semiconductors microelectrodes microfluidic channels pre manufactured gas sensors redox enzymes and others and is an ideal resource for understanding and utilizing their power in Food Science settings Devices used to analyse one particular food item can theoretically be adapted for other food items or components This does not just mean the re deploying the physical platforms but also the mode of bioinformatic and statistical analysis This includes artificial neural networks ANN linear discriminant analysis LDA partial least squares PLS principal component analysis PCA etc In other words there is cross transference of chemistry physics concepts techniques findings and approaches from one food to another Electronic noses and tongues are two of these devices but are advancing in application and importance This book provides examples of the use of electronic noses and tongues to characterise components that contribute to sensory or compositional profiles from ripening to harvesting and from storage of raw materials to packaging and consumption These devices are suitable for high throughput analysis quality control or to determine the nature and extent of spoilage and adulteration and have also been used to ascertain the geographical origins of food and mixtures Presents latest developments in the application of electronic nose and tongue technologies to a variety of food specific needs Includes both electronic nose electronic tongue and combined technology insights Each chapter has sections on The physical and chemical platforms Analysis of specific foods Applications to other foods and areas of food science **Die**

Wein-Wissenschaft ,1999 **Technical Review** ,2007 Authentication of Food and Wine Susan E. Ebeler,Gary R. Takeoka,Peter Winterhalter,2007 Consumers regulators and the food industry increasingly require that foods comply not only with label descriptions of food content but also with information regarding the food s origin For example the wine industry has a long history of labeling wines based on varietal regional or age vintage related properties However regulatory agencies are now beginning to require methods to confirm this label information Food retailers are also facing voluntary or mandatory labeling requirements that will indicate regional or country of origin species and or varietal information As a result development of reliable analytical methods to confirm the authenticity of the label information is needed This book presents the latest research on food and wine authentication The chapters are authored by leading international scientists whose research focuses on the development and application of analytical methodologies used for the authentication of food and beverages

Near-infrared Spectroscopy in Agriculture Craig Arthur Roberts,Jerry Workman,James B. Reeves,2004 This monograph highlights the practical use of NIR technology providing the latest information on NIR use in agricultural applications as well as the fundamentals of spectroscopy and chemometrics Unique among NIR publications the majority of the book details the widespread application of NIR analysis in crop production food processing and non food agriculture Forage fruits baking products timber meats and more If it has been analyzed with near infrared technology you will find it here

Functional Statistics Javier Martínez Torres,2020-12-23 Functional analysis the branch that lies between mathematical analysis and statistics has many applications in the field of engineering and processes Thus this book presents several applications carried out from this perspective as well as various works of a theoretical nature that take a further step so that researchers can use these models with high precision

Vitis ,2001 Annales ,2002 **Proceedings of the International Workshop on Advances in Grapevine and Wine Research** V. Nuzzo,Pasquale Giorio,Claudio Giulivo,2007

The Australian & New Zealand Grapegrower & Winemaker ,2005 **Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues** ,2005 *Canadian Journal of Earth Sciences* ,2010 **Red Wine Color** Andrew Leo Waterhouse,American Chemical Society. Meeting,2004 Short history of red wine color Yeast mediated formation of pigmented polymers in red wine Color and phenolic compounds of Oak matured wines as affected by the characteristics of the barrel The variation in the color components of red wines using FTIR wine analyses and the method of partial least squares The fate of anthocyanins in wine are there determining factors New pigments produced in red wines via different enological process Factors affecting the formation of red wine pigments Flavanols and anthocyanins as potent compounds in the formation of new pigments during storage and aging if red wine Structural changes of anthocianins during red wine aging Portisins a new class of blue anthocyanin derived pigments Novel aged anthocyanins from Pinotage wines isolation characterization and pathway of formation Anthocyanin transformation in Cabernet Sauvignon wine during aging The fate of Malvidin 3 glucoside in New wine Matrix assisted laser desorption ionization time of flight mass spectrometry of anthocyanin

polyflavan 3 ol Oligomers in cranberry fruit *Vaccinium macrocarpon* Ait and apray dried cranberry juice Compositional investigation of pigmented tannin Tannin anthocyanin interactions influence on wine color Fractionation of red wine polymeric pigments by protein precipitation and bisulfite bleaching

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