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Capillary Gas Adsorption Chromatography - V. G. Berezkin 2008-09-26

Engineering Challenges for Sustainable Future - Noor Amila Wan Abdullah Zawawi 2016-12-01
Engineering Challenges for Sustainable Future contains the papers presented at the 3rd International Conference on Civil, Offshore & Environmental Engineering (ICCOEE2016, Kuala Lumpur, Malaysia, 15-17 August 2016), under the banner of World Engineering, Science & Technology Congress (ESTCON2016). The ICCOEE series of conferences started in Kuala Lumpur, Malaysia 2012, and the second event of the series took place in Kuala Lumpur, Malaysia 2014. This conference series deals with the civil, offshore & environmental engineering field, addressing the following topics: • Environmental and Water Resources Engineering • Coastal and Offshore Engineering • Structures and Materials • Construction and Project Management • Highway, Geotechnical and Transportation Engineering and Geo-informatics This book is an essential reading for academic, engineers and all professionals involved in the area of civil, offshore and environmental engineering.

Environmental Microbiology - John F. T. Spencer 2008-02-05
The methods included in Environmental Microbiology: Methods and Pro- cols can be placed in the categories “Communities and Biofilms,” “Fermented Milks,” “Recovery and Determination of Nucleic Acids,” and the review s- tion, containing chapters on the endophytic bacterium, Bacillus mojavensis, the engineering of bacteria to enhance their ability to carry out bioremediation of

aromatic compounds, using the hemoglobin gene from a strain of Vitreoscilla 23 spp., and the use of chemical shift reagents and Na NMR to study sodium gradients in microorganisms, all of which should be of interest to investigators in these fields. The subjects treated within the different categories also cover a wide range, with methods ranging from those for the study of marine organisms, through those for the investigation of microorganisms occurring in ground waters, including subsurface ground waters, to other types of environmental waters, to as varied subjects as the biodiversity of yeasts found in northwest Argentina. The range of topics described in the Fermented Milks section is smaller, but significant for investigators in areas concerned with milk as an item of foods for infants, small children, and even adults.

Palm Oil: Proceedings of agriculture, biotechnology & sustainability conference. pt. 1. Oral papers. pt. 2. Poster papers - 2007

Deep-sea Fauna and Pollutants Off Pacific Coast of Northern Japan - Toshihiko Fujita 2009

Disinfection By-products in Drinking Water - Tanju Karanfil 2008

Since their discovery, disinfection by-products (DBPs) have become one of the major driving forces in drinking water regulations, research and water utility operations throughout the world. The list of DBPs that can occur in treated drinking waters has grown from a few trihalomethanes to a

long list of halogenated and non-halogenated organic or inorganic compounds. This list is expected to continue to grow as the analytical techniques are improved, as more information on their toxicity is developed, and as more occurrence studies are conducted. This book documents the latest DBP research findings, including emerging issues and state-of-the-art studies. Specifically, papers on the occurrence, formation, control, and health effects of emerging (unregulated) halogenated (e.g., brominated) and nonhalogenated (e.g., nitrosamines) DBPs (e.g., emerging nitrogenous vs. regulated carbonaceous DBPs) are presented. In addition to the characterization and reactivity of natural organic matter to form DBPs, new studies on algal organic matter and treated wastewater as sources of DBPs and their precursors are discussed. □□□□□□□□□ - 2014

Ultrastructural and Physicochemical Modifications Within Ammonia Treated Lignocellulosic Cell Walls and Their Influence on Enzymatic Digestibility - Shishir Pratap Singh Chundawat 2009

Multifaceted Protocol in Biotechnology - Azura Amid 2019-01-23 This edited work presents useful methods in experimenting in the area of Bioprocessing and Biotechnology. The four sections cover the area of Bioprocess, Whole Cells & Isolated Biocatalyst, Characterization of Biochemical Products and Cell Isolation & Culture. Its enable researchers to choose a suitable

method and plan their experiments in details. The main focus of this book is to provide step by step method to young researchers, especially in the new research areas. Among the latest areas are the isolation of novel strain or enzyme by metagenomic approaches and taming procedure in the laboratories, development of novel, the cheap and non-toxic catalyst for biodiesel production, and production of micro-fibrillated cellulose. An updated method for well-known areas such as immobilization technology, biosensor, and polymerization was also presented. The book also covers in-silico methods such as MATLAB platform to ease researchers. Not to forget, the method in animal and plant culture is also discussed in detail. The book is written by chapter authors with much expertise in their fields. They have published multiple articles in the index listed journals. The topic of this book is particularly relevant to young researchers who are struggling to fine-tune their research and do not want to waste their time in optimizing the experiment set up.

Cooperative Adaptations and Evolution in Plant-Microbe Systems - Tatiana Matveeva 2018-11-02

Ecological and evolutionary genetics of plant-microbe interactions is of high importance for developing the plant science since the plants originated symbiotically (via incorporation of a phototrophic cyanobacterium into a heterotrophic eukaryon) and further evolve as the multipartite symbiotic systems, harboring the enormously diverse

microbial communities. The Research Topic has integrated the top-level research on the genetic interactions in the plant-microbial associations required to develop the novel evolutionary approaches in the molecular and ecological genetics of different kinds of symbioses.

Fire Debris Analysis - Eric Stauffer 2007-12-10

The study of fire debris analysis is vital to the function of all fire investigations, and, as such, Fire Debris Analysis is an essential resource for fire investigators. The present methods of analysis include the use of gas chromatography and gas chromatography-mass spectrometry, techniques which are well established and used by crime laboratories throughout the world. However, despite their universality, this is the first comprehensive resource that addresses their application to fire debris analysis. Fire Debris Analysis covers topics such as the physics and chemistry of fire and liquid fuels, the interpretation of data obtained from fire debris, and the future of the subject. Its cutting-edge material and experienced author team distinguishes this book as a quality reference that should be on the shelves of all crime laboratories. Serves as a comprehensive guide to the science of fire debris analysis Presents both basic and advanced concepts in an easily readable, logical sequence Includes a full-color insert with figures that illustrate key concepts discussed in the text

Understanding Petroleum Reservoirs - John M. Cubitt 2004

Toxicity of Nitroaromatic Compounds - Douglas E. Rickert 1985-01-01

Sociobiology - 2005

Shaping of Human Immune System and Metabolic Processes by Viruses and Microorganisms - Marina I. Arleevskaya 2019-08-15
Recent advances in the understanding of microbiota in health and diseases are presented in this special issue of Frontiers in Immunology and Frontiers in Microbiology as well as their impact on the immune system that can lead to the development of pathologies. Potential perspectives and biomarkers are also addressed. We offer this Research Topic involving 64 articles and 501 authors to discuss recent advances regarding: 1. An overview of the human microbiota and its capacity to interact with the human immune system and metabolic processes, 2. New developments in understanding the immune system's strategies to respond to infections and escape strategies used by pathogens to counteract such responses, 3. The link between the microbiota and pathology in terms of autoimmunity, allergy, cancers and other diseases.

Coffee: From the Field to the Cup - Paulo Mazzafera 2022-08-08

Environmental Toxicology II - C. A. Brebbia 2008
Environmental toxicology is one of the most interdisciplinary sciences. Biologists, microbiologists, chemists, engineers, environmentalists, ecologists and other scientists work together in

this new scientific discipline. Assessment of the environmental effects of chemicals is complicated as it depends on the organisms tested and involves not only the toxicity of individual chemicals, but also their interactive effects (including antagonistic and synergistic ones), and genotoxicity, mutagenicity and immunotoxicity testing. Hazardous waste management is closely related to environmental toxicology and there is a growing need for techniques and practices to minimize the environmental effects of chemicals. This volume contains the contributions presented at the 2nd Conference on Environmental Toxicology, which was held in Granada, Spain in 2008. The papers cover the following subject areas: Risk Assessment; Human Health Risk; Effluent Toxicity; Bioaccumulation of Chemicals; Biodegredation and Bioremediation; Biological Effects Monitoring; Laboratory Tests and Validation; Ecotoxicity of Emerging Chemicals; New Trends in Environmental Toxicology.

Integrating Emerging Technologies into Marine Megafauna Conservation Management - Peter H. Dutton 2020-01-16

Mass Spectrometry Handbook - Mike S. Lee 2012-05-08

Due to its enormous sensitivity and ease of use, mass spectrometry has grown into the analytical tool of choice in most industries and areas of research. This unique reference provides an extensive library of methods used in mass spectrometry, covering applications of mass

spectrometry in fields as diverse as drug discovery, environmental science, forensic science, clinical analysis, polymers, oil composition, doping, cellular research, semiconductor, ceramics, metals and alloys, and homeland security. The book provides the reader with a protocol for the technique described (including sampling methods) and explains why to use a particular method and not others. Essential for MS specialists working in industrial, environmental, and clinical fields.

Genetic Engineering News - 2005

The Science of Meat Quality - Chris R. Kerth 2013-04-03

Meat has been a long sought after source of nutrients in human diets. Its nutrient-dense composition of protein, fats, vitamins and minerals makes it an integral part to healthy and balanced diets. As demand for meat continues to increase globally, a better understanding of efficiently producing quality meat products is becoming increasingly important. The Science of Meat Quality provides comprehensive coverage of meat quality from the biological basis of muscle development to end-product-use topics such as preparation and sensory analysis. The Science of Meat Quality explores the basis of meat quality long before it hits grocery store shelves. The book opens with a look at cellular muscle tissue development, metabolism and physiology. Subsequent chapters look at topics surrounding the development of tenderness, water-holding capacity, lipid oxidation and color in meat products. The final chapters

discuss producing a good-tasting end product from preparing meat to preventing food-borne illness. Each chapter contains not only the theory behind that topic, but also detailed lab methodologies for measuring each meat quality trait. The Science of Meat Quality is an essential resource and reference for animal scientists, meat scientists, food scientists, and food industry personnel. Meat has been a long sought after source of nutrients in human diets. Its nutrient-dense composition of protein, fats, vitamins and minerals makes it an integral part to healthy and balanced diets. As demand for meat continues to increase globally, a better understanding of efficiently producing quality meat products is becoming increasingly important. The Science of Meat Quality provides comprehensive coverage of meat quality from the biological basis of muscle development to end-product-use topics such as preparation and sensory analysis. The Science of Meat Quality explores the basis of meat quality long before it hits grocery store shelves. The book opens with a look at cellular muscle tissue development, metabolism and physiology. Subsequent chapters look at topics surrounding the development of tenderness, water-holding capacity, lipid oxidation and color in meat products. The final chapters discuss producing a good-tasting end product from preparing meat to preventing food-borne illness. Each chapter contains not only the theory behind that topic, but also detailed lab methodologies for measuring each meat quality trait. The Science of

Meat Quality is an essential resource and reference for animal scientists, meat scientists, food scientists, and food industry personnel.

The Journal of Cetacean Research and Management - 2006

American Laboratory - 2007

Microbes in the Spotlight - A. Méndez-Vilas 2016-06-28

Microbes in the Spotlight: Recent Progress in the Understanding of Beneficial and Harmful Microorganisms contains a selection of papers presented at the VI International Conference on Environmental, Industrial and Applied Microbiology - BioMicroWorld2015 (Barcelona, Spain). This book offers the outcomes of completed and outgoing research works and experiences of several microbiology research groups across the world. The volume is divided into the following sections: -- Agricultural and environmental microbiology. Biodeterioration, biodegratation, bioremediation --Food microbiology --Medical microbiology. Antimicrobial agents and chemotherapy. Antimicrobial resistance --Industrial microbiology. Microbial production of high-value products --Biotechnologically relevant enzymes and proteins -- Methods and technology development -- Microbial physiology Readers will find this book a useful opportunity to keep up with the latest research results, insights and advances in the microbiology field.

Journal of Environmental Quality - 2009

Selective Detectors - Robert E. Sievers 1995-04-03

A timely and authoritative review of the current state of selective detector technology This book was written for professionals who need to keep abreast of the latest developments and emerging trends in selective detectors and their applications. It comprises contributions from many of the leading innovators and pioneers in the field, including James Lovelock, inventor of the electron capture detector, whose own contribution is certain to be a rich source of ideas and inspiration for all who read it. Offering a balanced presentation of theory and practice, Selective Detectors: Reviews the theory and underlying principles of a broad range of devices Discusses, in detail, capabilities and current applications, with an emphasis on interdisciplinary applications, including environmental, petrochemical, biomedical, and quality control Explores, in depth, the latest advances and emerging technologies Arms readers with a wealth of practical "how-to" information on selecting, using, modifying, and building selective detectors for a wide range of applications Future historians studying the late twentieth century will almost certainly come to view the advent of selective detectors as among the truly formative technological developments of the period. Anyone who doubts this thesis need only consider the impact of selective detection on environmental quality, the sciences, technology,

medicine, business and industry, public policy, quality control, and many other fields. Yet, despite the obvious importance of selective detectors, there continues to be a scarcity of books dedicated to helping professionals keep abreast of the latest developments and emerging trends in this in fluential technology. This timely and authoritative review of the current state of selective detector technology fills that gap. This book focuses on the newest selective detectors for chromatographic analysis. Conceived and shepherded into existence by a major figure in analytical chemistry and environmental analysis, it includes contributions from many of the leading innovators and pioneers in the field. Most prominent among these is Dr. James Lovelock, inventor of the electron capture detector, whose chapter on the history and development of selective detectors will be a rich source of ideas and inspiration for all who read it. Offering a balanced presentation of theory and practice, Selective Detectors reviews the theory and underlying principles of selective detectors; discusses, in detail, their current capabilities and applications; explores the latest advances and emerging technologies; and arms readers with a wealth of practical "how-to" information on selecting, using, modifying, and building selective detectors for a wide range of applications. Selective Detectors is an invaluable resource for analytical chemists and technicians working in a variety of

disciplines, including environmental science, petrochemical industries, the food and beverage industries, biotechnology, medicine, and more. Identifying Ignitable Liquids in Fire Debris - Jeanet Hendrikse 2015-10-05 Identifying Ignitable Liquids in Fire Debris: A Guideline for Forensic Experts discusses and illustrates the characteristics of different ignitable liquid products. This guideline builds on the minimum criteria of the ignitable liquid classes defined in the internationally accepted standard ASTM E1618 Standard Test Method for Ignitable Liquid Residues in Extracts from Fire Debris Samples by Gas Chromatography-Mass Spectrometry. The volume provides information on the origin of the characteristics of these ignitable liquid products and provides a summary of characteristics to demonstrate a positive identification of the particular product class. Topics such as the term ignitable liquid, relevant guidelines for fire debris analysis, production processes of ignitable liquids, fire debris analysis methods, and interferences in fire debris analysis, are briefly discussed as these topics are essential for the understanding of the identification and classification of ignitable liquid residues in fire debris. Discusses the characteristics and variations in chemical composition of different classes of the ignitable liquid products defined by ASTM E1618:14 Covers the General Production Processes of Ignitable Liquid Products Includes a guide for the Identification of Ignitable

Liquids in Fire Debris

Analytical Chemistry - Harold H. Trimm 2011-04-15

This collection presents a broad selection of recent research on analytical chemistry, including methods of determination and analysis as applied to plants, pharmaceuticals, foods, proteins, and more. Analytical chemistry is the study of what chemicals are present and in what amount in natural and artificial materials. Because these understandings are fundamental in just about every chemical inquiry, analytical chemistry is used to obtain information, ensure safety, and solve problems in many different chemical areas, and is essential in both theoretical and applied chemistry. Analytical chemistry is driven by new and improved instrumentation.

Association and Discrimination of Ignitable Liquids from Matrix Interferences Using Chemometric Procedures - Jamie Melissa Baerncopf 2009

Understanding Wine Microbiota: Challenges and Opportunities - Aline Lonvaud 2019-08-16

Wine yeast and bacteria have been extensively characterized in terms of physiological and metabolic traits largely in pure culture analyses. Winemaking practices derived from this basic knowledge have undoubtedly improved wine quality. Phylogenetic studies and genome comparisons in extensive collections have revealed the processes of evolution and adaptation of the two main microbial species, Saccharomyces cerevisiae and

Oenococcus oeni, present in wine. However, grapes and grape juice contain a variety of microorganisms and these principal agents of fermentation are in fact part of a complex microbial community that evolves dynamically in a special niche. Thanks to the new methods of analysis, the complexity of the microbiota can be measured in any sample of must or wine. In addition, there is greater appreciation of diversity within the main species present in wine. Intraspecific diversity has been evaluated in yeast and bacteria species and strains can be typed even in the mixture of selected or indigenous strains. Descriptions of microbial profiles in all the regions of the world suggest that the microbiota is a significant element of terroir or regional signature. It is no longer enough to simply describe what is present. It is important to consider evolution, physiology and metabolism taking into account microbial interactions within the community. Research in wine microbiology has also expanded our understanding of the participation and role of non-Saccharomyces organisms in winemaking, and refined knowledge on microbial spoilage. However, it is challenging to go from the simple description of these phenomena to their interpretation. The greatest difficulty lies in analyzing the functioning of the extraordinary complex system of yeast and bacteria present during different stages of the fermentation. Interactions in the very particular environment of fermenting grape induce alternations of relative

populations' dominances and declines with subsequent impacts on wine composition. Some mechanisms have been identified or suggested, but much remains to be done. The recent advent of inoculation with non-Saccharomyces in oenological practice, sometimes leading to inconstant results, reflects the profound gaps that exist in knowledge of the complexity of fermentation and wine microbial ecosystems. Understanding how the microbial community works is expected to provide a sound basis before using fermentation helpers and starters, taking into account the indigenous microbiota. It will also aid in monitoring and understanding native or uninoculated fermentations that rely on the complex interactions of grape, winery and fermentation biota for their aroma and flavor profile. The aim of this Research Topic was to bring together current knowledge on several key aspects of wine microorganism biology: i) Evolution / co-evolution of yeasts and bacteria in their process of domestication and adaptation to the oenological niche. ii) Mechanisms of interactions between species and strains, both on grapes and in grape must. iii) Metabolism and physiology of yeast and bacteria in interactions with each other and with the environment, considering to what extent expected objectives (typicity, lower alcohol, etc.,) can be reached by using selected strains. iv) Development of novel technologies or approaches for the assessment of changes in a dynamic microbial community and the linking of such changes to wine

flavor and aroma properties. v) Diversity, ecology, physiology and metabolism of B. bruxellensis. Damage from this spoilage agent is not effectively prevented because we do not fully understand the biology of this species, particularly in interaction with other yeast and bacteria. Each chapter presents advances in these areas of study. Research in wine microbiology, particularly in the wine microbiome and its impacts on wine composition is enhancing our understanding of the complexities and dynamics of microbial food and beverage ecosystems.

Journal of Chromatography - 2001

Biological Activity of Natural Secondary Metabolite Products - Toshio Morikawa 2018-09-20

This book is a printed edition of the Special Issue "Biological Activity of Natural Secondary Metabolite Products" that was published in IJMS

Canadian Journal of Fisheries and Aquatic Sciences - 2011-09

Geological Quarterly - 2012

Influence of Evaporation and Matrix Interferences on the Association and Discrimination of Ignitable Liquids Using Chemometric Procedures - Tiffany Paige Van De Mark 2010

Molecular and Quantitative Animal Genetics - Hasan Khatib 2015-03-02

Animal genetics is a foundational discipline in the fields of animal science, animal breeding, and veterinary sciences. While genetics underpins the healthy development and

breeding of all living organisms, this is especially true in domestic animals, specifically with respect to breeding for key traits. Molecular and Quantitative Animal Genetics is a new textbook that takes an innovative approach, looking at both quantitative and molecular breeding approaches. The bookprovides a comprehensive introduction to genetic principles and their applications in animal breeding. This text provides a useful overview for those new to the field of animal genetics and breeding, covering a diverse array of topics ranging from population and quantitative genetics to epigenetics and biotechnology. Molecular and Quantitative Animal Genetics will be an important and invaluable educational resource for undergraduate and graduate students and animal agriculture professionals. Divided into six sections pairing fundamental principles with useful applications, the book's comprehensive coverage will make it an ideal fit for students studying animal breeding and genetics at any level.

Environmental Toxicology and Chemistry - 2006

Identification and Characterization of Contrasting Genotypes/Cultivars to Discover Novel Players in Crop Responses to Abiotic/Biotic Stresses - Raul Antonio Sperotto 2022-02-24

International Journal of Systematic and Evolutionary Microbiology - 2008

Pesticides - Margarita Stoytcheva 2011-01-21

This book provides recent information on various analytical procedures and techniques, representing strategies for reliability, specificity, selectivity and sensitivity improvements in pesticides analysis. The volume covers three main topics: current trends in sample preparation, selective and sensitive chromatographic detection and determination of pesticides residues in food and environmental samples, and biological (immunoassays-and biosensors-based) methods application in pesticides analysis as an alternative to the chromatographic methods for "in situ" and "on line" pesticides quantification. Intended as electronic edition, providing an immediate "open access" to its content, the book is easy to follow and will be of interest to the professionals involved in pesticides analysis.