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This is the fourth volume in the series of books on the Southeast Asian water environment. The most important articles presented at the Sixth and

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Seventh International Symposiums on Southeast Asian Water Environment have been selected for this book.

This book offers insights into the current focus and recent advances in bioremediation and green technology applications for waste minimization and pollution control. Increasing

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urbanization has an impact on the environment, agriculture and industry, exacerbating the pollution problem and creating an urgent need for sustainable and green eco-friendly remediation technology. Currently, there is heightened interest in environmental research, especially in

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the area of pollution remediation and waste conversion, and alternative, eco-friendly methods involving better usage of agricultural residues as economically viable substrates for environmental cleanup are still required. The book offers researchers and scholars inspiration, and suggests

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directions for specific waste management and pollution control.

The research presented makes a valuable contribution toward a sustainable and eco-friendly societal environment.

Vols. for 1970-71 includes manufacturers' catalogs.

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GEN Guide to Biotechnology
Companies
The Boston Globe Index

Sausages
: Nutrition, Safety, Processing and
Quality Improvement

Sausages are privileged

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*foods due to their
diversity, nutritional
value, deep roots in the
culture of the peoples
and economic importance.
In order to increase the
knowledge and to improve*

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*the quality and safety
of these foods, an
intense research
activity was developed
from the early decades
of the past century.*

This book includes ten

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research works and a review showing important and interesting advances and new approaches in most of the research topics related to sausages. After an

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*editorial of the Editor
reflecting the aims and
contents of the book,
the initial five
chapters deal with
microbiological issues
of the sausage*

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manufacture

*(characterization and
study of the bacterial
communities of sausages,
study of the metabolism
and the technological
and safety*

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characteristics of concrete microbial strains, and use of starter cultures to improve the sausage quality). Chemical hazards also receive

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some attention in this book with a chapter on the optimization of the smoking process of traditional dry-cured meat products to minimize the presence of

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PAHs. The partial or total replacement of the traditional ingredients in sausages with unconventional raw materials for the obtaining of novel and

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varied products are the subject of three chapters. Next, a chapter is dedicated to another interesting topic, the search and the essay of natural

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*substitutes for
synthetic additives due
to the increasing
interest of consumers in
healthier meat products.
The book ends with an
interesting review on*

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the safety, quality and analytical authentication of halal meat products, with particular emphasis on salami.

This book looks at the

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current state of food security and climate change, discusses the issues that are affecting them, and the actions required to ensure there will be

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*enough food for the
future. By casting a
much wider net than most
previously published
books—to include select
novel approaches,
techniques, genes from*

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*crop diverse genetic
resources or
relatives—it shows how
agriculture may still be
able to triumph over the
very real threat of
climate change. Food*

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*Security and Climate
Change integrates
various challenges posed
by changing climate,
increasing population,
sustainability in crop
productivity, demand for*

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*food grains to sustain
food security, and the
anticipated future need
for nutritious quality
foods. It looks at
individual factors
resulting from climate*

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change, including rising carbon emission levels, increasing temperature, disruptions in rainfall patterns, drought, and their combined impact on planting environments,

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*crop adaptation,
production, and
management. The role of
plant genetic resources,
breeding technologies of
crops, biotechnologies,
and integrated farm*

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*management and agronomic
good practices are
included, and
demonstrate the
significance of food
grain production in
achieving food security*

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*during climate change.
Food Security and
Climate Change is an
excellent book for
researchers, scientists,
students, and policy
makers involved in*

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agricultural science and technology, as well as those concerned with the effects of climate change on our environment and the food industry.

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Knowledge of arbuscular mycorrhizal fungi (AMF) in wetlands is limited. AMF colonize the roots of most terrestrial plant species, often improving the growth and

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*fitness of host plants
by increasing access to
nutrients and resistance
to pathogens, drought,
salinity, and metal
toxicity. These benefits
vary with plant species,*

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and consequently contribute to plant community structure and diversity. In wetlands, where anoxia can inhibit mycorrhizae, the role of AMF may be limited. In

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*this dissertation, I
evaluate whether AMF
help structure
calcareous fen plant
communities through
three separate studies.
First, I conducted a*

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survey of 67 plant species in three fens, which showed that roughly 75% of fen plant species, mostly dicots, regularly formed mycorrhizae. However,

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several monocot species commonly were non-mycorrhizal, including those of the Cyperaceae (sedges) and Juncaceae (rushes). In a second survey, I sampled plants

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*growing in different
microtopographic zones
to test whether water
saturation in the
rooting zone inhibits
AMF colonization. In the
two plant species*

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*examined, Solidago
patula and Packera
aurea, there was no
noticeable decline in
colonization associated
with microtopographic
rooting location,*

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suggesting that mycorrhizae can survive in roots during extended periods of soil saturation. Finally, I conducted an 11-week greenhouse study testing

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*the response of four fen
plant species to
mycorrhizal inoculation
and water table
manipulations. I found
that three common fen
dicots, *Lycopus**

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americanus, *Mentha arvensis*, and *Solidago patula*, responded positively to AMF when water level was low. However, when water level was set at the

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*surface, only Lycopodium
americanum increased
growth in response to
inoculation. AMF
inoculation improved
nutrient uptake in all
three species, even in*

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*water-saturated soils.
The fourth species,
Carex sterilis, was
never colonized by AMF
and showed no growth or
nutrient response to
inoculation. These*

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*results show that AMF
can benefit fen plant
species where water
tables are lowest, but
where water levels are
higher, these benefits
typically are muted,*

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which may favor non-mycorrhizal plant species. Consequently, heterogeneity in fen soil saturation can lead to different growth responses to AMF among

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plant species, which can contribute to patterns of plant species coexistence and community structure.

Analytical Technology in Nutrition Analysis

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Plant Pigments
The Business and
Technology Videolog
Fundamentals of
Analytical Chemistry
Dispersions

Due to increasing global

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food needs as a result of population growth, the use of new food sources has gained interest in the last decade. However, the inclusion of new foods in our diet, as well as the

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increased interest of the population in consuming foods with better nutritional properties, has increased the need for adequate food analytical methods. This

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***monographic issue
presents innovative
methods of chemical
analysis of foods, as well
as the nutritional and
chemical characterization
of foods whose***

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consumption is expected to increase worldwide in the coming years. This book is open access under a CC BY 4.0 license. This book provides a fresh, updated and

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***science-based
perspective on the
current status and
prospects of the diverse
array of topics related to
the potato, and was
written by distinguished***

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scientists with hands-on global experience in research aspects related to potato. The potato is the third most important global food crop in terms of consumption. Being

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***the only vegetatively
propagated species
among the world's main
five staple crops creates
both issues and
opportunities for the
potato: on the one hand,***

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***this constrains the speed
of its geographic
expansion and its options
for international
commercialization and
distribution when
compared with***

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***commodity crops such as
maize, wheat or rice. On
the other, it provides an
effective insulation
against speculation and
unforeseen spikes in
commodity prices, since***

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the potato does not represent a good traded on global markets. These two factors highlight the underappreciated and underrated role of the potato as a dependable

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***nutrition security crop,
one that can mitigate
turmoil in world food
supply and demand and
political instability in
some developing
countries. Increasingly,***

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the global role of the potato has expanded from a profitable crop in developing countries to a crop providing income and nutrition security in developing ones. This

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***book will appeal to
academics and students
of crop sciences, but also
policy makers and other
stakeholders involved in
the potato and its
contribution to***

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***humankind's food
security.***

***This book focuses on the
latest genome
sequencing of the 25 wild
Oryza species, public and
private genomic***

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***resources, and their
impact on genetic
improvement research. It
also addresses the
untapped reservoir of
agronomically important
traits in wild Oryza***

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species. Rice is a model crop plant that is frequently used to address several basic questions in plant biology, yet its wild relatives offer an

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untapped source of agronomically important alleles that are absent in the rice gene pool. The genus Oryza is extremely diverse, as indicated by a wide range of

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***chromosome numbers,
different ploidy levels
and genome sizes. After a
13-year gap from the first
sequencing of rice in the
2002, the genomes of 11
wild Oryza species have***

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now been sequenced and more will follow. These vast genomic resources are extremely useful for addressing several basic questions on the origin of the genus, evolutionary

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***relationships between
the species,
domestication, and
environmental
adaptation, and also help
to substantiate molecular
breeding and pre-***

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***breeding work to
introgress useful
characters horizontally
from wild species into
cultivated rice.***

***Applied Spectroscopy
The Architects' Journal***

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The Potato Crop Real-Time PCR Bioconversion Processes

With a variety of detection chemistries, an increasing number of platforms, multiple choices for analytical methods and the jargon emerging along with

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these developments, real-time PCR is facing the risk of becoming an intimidating method, especially for beginners. Real-time PCR provides the basics, explains how they are exploited to run a real-time PCR assay, how the assays are run and where these assays are informative in

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real life. It addresses the most practical aspects of the techniques with the emphasis on 'how to do it in the laboratory'. Keeping with the spirit of the Advanced Methods Series, most chapters provide an experimental protocol as an example of a specific assay.

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This book addresses various aspects of in vitro digestibility: □ Application of meta-analyses and machine learning methods to predict methane production; □ Methane production of sainfoin and alfalfa; □ In vitro evaluation of different dietary methane mitigation strategies; □ Rumen

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methanogenesis, rumen fermentation, and microbial community response; □ The role of condensed tannins in the in vitro rumen fermentation kinetics; □ Fermentation pattern of several carbohydrate sources; □ Additive, synergistic, or antagonistic effects of plant extracts; □ In vitro rumen

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degradation and fermentation characteristics of silage and hay; □ In vitro digestibility, in situ degradability, and rumen fermentation of camelina co-products; □ Ruminant fermentation parameters and microbial matters to odd- and branched-chain fatty acids; □ Comparison of fecal versus rumen

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inocula for the estimation of NDF digestibility; □ Rumen inoculum collected from cows at slaughter or from a continuous fermenter; □ Seaweeds as ingredients of ruminant diets; □ Rumen in vitro fermentation and in situ degradation kinetics of forage Brassica crops; □ In vitro

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digestibility and rumen degradability of vetch varieties; □ Intestinal digestibility in vitro of *Vicia sativa* varieties; □ Ruminant in vitro protein degradation and apparent digestibility of *Pisum sativum*; □ In vitro digestibility studies using equine fecal inoculum; □ Effects of gas production recording system

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and pig fecal inoculum volume on kinetics; □ In vitro methods of assessing protein quality for poultry; and □ In vitro techniques using the DaisyII incubator.

It is now well accepted that the consumption of plant-based foods is beneficial to human health. Fruits,

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vegetables, grains, and derived products can be excellent sources of minerals, vitamins, and fiber and usually have a favorable nutrient-to-energy ratio. Furthermore, plant foods are also a rich source of phytochemicals such as polyphenols, carotenoids, and betalains, with

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potential health benefits for humans. Many epidemiological studies have made a direct link between the consumption of plant foods and health. Human intervention studies have also shown that higher intake/consumption of plant foods can reduce the incidence of metabolic syndrome and

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other chronic diseases, especially in at-risk populations such as obese people. In addition to its health benefits, plant foods are also used as functional ingredients in food applications such as antioxidants, antimicrobials, and natural colorants. The Special Issue "Foods of Plant Origin" covers

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biodiscovery, functionality, the effect of different cooking/preparation methods on bioactive (plant food) ingredients, and strategies to improve the nutritional quality of plant foods by adding other food components using novel/alternative food sources or applying non-conventional preparation

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techniques.

Effects of Urban Runoff in Santa
Monica Bay, California

Its Agricultural, Nutritional and Social
Contribution to Humankind

Bioremediation and Sustainable

Technologies for Cleaner Environment

Cameron Hydraulic Data

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Genetic Engineering News

Explaining principles essential for the interpretation of data and understanding the real meaning of the result, this work describes various methods and techniques used to characterize dispersions and measure their physical and chemical properties.

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It describes a variety of dispersions containing particles ranging from submicron sizes to aggregates and from hard particles to polymer latices. This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services,

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*Company profiles and Catalog file.
Known for its readability and
systematic, rigorous approach, this
fully updated Ninth Edition of
FUNDAMENTALS OF ANALYTICAL
CHEMISTRY offers extensive
coverage of the principles and
practices of analytic chemistry and*

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consistently shows students its applied nature. The book's award-winning authors begin each chapter with a story and photo of how analytic chemistry is applied in industry, medicine, and all the sciences. To further reinforce student learning, a wealth of dynamic photographs by

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*renowned chemistry photographer
Charlie Winters appear as chapter-
openers and throughout the text.
Incorporating Excel spreadsheets as a
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is enhanced by a chapter on Using
Spreadsheets in Analytical Chemistry,
updated spreadsheet summaries and*

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problems, an Excel Shortcut Keystrokes for the PC insert card, and a supplement by the text authors, EXCEL APPLICATIONS FOR ANALYTICAL CHEMISTRY, which integrates this important aspect of the study of analytical chemistry into the book's already rich pedagogy. New to

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this edition is OWL, an online homework and assessment tool that includes the Cengage YouBook, a fully customizable and interactive eBook, which enhances conceptual understanding through hands-on integrated multimedia interactivity. Available with InfoTrac Student

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Distribution and Function of Arbuscular Mycorrhizal Fungi in Calcareous Fens

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*Plant Natural Products for Human
Health
Characterization, Testing, and
Measurement
Evolutionary and Integrative
Approaches for Revealing Adaptive
Mechanisms in Marine Animals along
Environmental Gradients*

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Electronics Buyers' Guide

This book is a printed edition of the Special Issue "Bioconversion Processes" that was published in Fermentation
The biochemistry of plant

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pigments attracts continuing interest and research from a wide range of pure and applied biochemists and plant scientists. In many areas the first two editions of

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Professor Goodwin's Chemistry and Biochemistry of Plant Pigments have been overtaken by research and the need for a new, up-to-date summary has become pressing. This new book

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was conceived in response to this need. The burgeoning literature mitigates against a comprehensive treatment. Instead Professor Goodwin has identified seven

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topics which represent growing points in plant pigment research and has invited experts to prepare critical reviews of recent developments in them. The resulting book is an

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essential companion to the earlier volumes and will ensure that workers in this field are absolutely up to date with the latest thinking.

After the coming of age of

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lipidomics, the science of global lipid analysis has broadened its contribution to the understanding of biological processes. This volume represents a transversal view on the

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state of the art of
research on lipid biology
and bioactive lipid
molecules. It includes
research and review
articles on the role of
bioactive lipids in

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diverse domains like cell signaling, neuromuscular transmission, cancer pathophysiology, cardiovascular and rare diseases, antibacterial activity, the emergency of

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biomaterials, and associated technological and analytical developments. It provides an instantaneous picture of the place of lipidomics and its fields of

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application, as well as hints about the directions that lipid research may follow in the near future.

Bioactive Lipids and
Lipidomics 2018
Studies in Phycology

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A Comprehensive Guide and
Trade Directory to the
U.S. Medical and
Healthcare Industry
Instruments & Control
Systems
Applied and Environmental

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Microbiology

A complete guide to choosing and using the best analytical technique for the job at hand Today's new generation of spectroscopic instrumentation allows for more accurate and varied measurements than ever before. At the same time, increasingly powerful, user-friendly PC

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hardware and software make running those instruments relative child's play. However, although they may have solved many of the problems traditionally associated with conducting molecular spectroscopic analyses, these refinements tend to obscure inherent technical challenges which, if not taken into consideration, can seriously

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undermine a research initiative. Modern Techniques in Applied Molecular Spectroscopy gives scientists and technicians the knowledge they need to address those challenges and to make optimal selection and use of contemporary molecular spectroscopic techniques and technologies. While editor Francis

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Mirabella and contributors provide ample background information about how and why individual techniques work, they concentrate on practical considerations of crucial concern to researchers working in industry. For each technique covered, they provide expert guidance on method selection, sample preparation,

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troubleshooting, data handling and analysis, and more. Adhering principally to mid-IR molecular spectroscopic techniques, they clearly describe the guiding principles behind, characteristics of, and suitable applications for transmission spectroscopy, reflectance spectroscopies, photoacoustic

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spectroscopy, infrared and Raman microspectroscopy, fiber optic techniques, and emission spectroscopy. Modern Techniques in Applied Molecular Spectroscopy is an indispensable working resource for analytical scientists and technicians working in an array of industries.

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Phytoplankton Dynamics at the Land-sea
Interface Effects of Urban Runoff in Santa
Monica Bay, California Distribution and
Function of Arbuscular Mycorrhizal Fungi
in Calcareous Fens

Plants have served mankind as an
important source of foods and medicines.
While we all consume plants and their

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products for nutritional support, a majority of the world population also rely on botanical remedies to meet their health needs, either as their own “traditional medicine” or as “complementary and alternative medicine”. From a pharmaceutical point of view, many compounds obtained from plant sources

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have long been known to possess bio/pharmacological activities, and historically, plants have yielded many important drugs for human use, from morphine discovered in the early nineteenth century to the more recent paclitaxel and artemisinin. Today, we are witnessing a global resurgence in interest

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and use of plant-based therapies and botanical products, and natural products remain an important and viable source of lead compounds in many drug discovery programs. This Special Issue on “Plant Natural Products for Human Health” compiles a series of scientific reports to demonstrate the medicinal potentials of

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plant natural products. It covers a range of disease targets, such as diabetes, inflammation, cancer, neurological disease, cardiovascular disease, liver damage, bacterial, and fungus infection and malarial. These papers provide important insights into the current state of research on drug discovery and new techniques. It is

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hoped that this Special Issue will serve as a timely reference for researchers and scholars who are interested in the discovery of potentially useful molecules from plant sources for health-related applications.

Southeast Asian Water Environment 4
In Vitro Digestibility in Animal Nutritional

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Studies

GEN.

D&B Business Rankings

Food Security and Climate Change