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Interest in the postharvest behavior of fruits and vegetables has a history as long as mankind's. Once we moved past mere survival, the goal of postharvest preservation research became learning how to balance consumer satisfaction with quantity and quality while also preserving nutritional quality. A comprehensive overview of new postharvest techno Milk proteins have nutritional value and extraordinary biological properties. Research over the last decades has provided new insight into the structure and the function of milk bioactive peptides. Some of these peptides are delivered directly into milk, and some are encrypted in major proteins such as caseins and lactoglobulins. These peptides have antimicrobial functions modulating the gut microflora. Even when milk is undisputedly the first food for mammals, milk proteins sometimes can be a health threat, either because of allergic reaction or because of toxicity. In this regard, in vitro studies showed donkey's casein and major whey proteins to be more digestible than cows' for human consumption. In this book, readers will find updated research on the major milk proteins' structure, bioactive peptides, milk protein allergy, therapeutic strategies, and chemical markers that can be used to detect cow milk intolerance in infants. This book provides the

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most current scientific information on milk proteins, from structure to biological properties. It will be of great benefit for those interested in milk production, milk chemistry, and human health.

Multiple factors can directly influence the chemical composition of foods and, consequently, their organoleptic, nutritional, and bioactive properties, including their geographical origin, the variety or breed, as well as the conditions of cultivation, breeding, and/or feeding, among others. Therefore, there is a great interest in the development of accurate, robust, and high-throughput analytical methods to guarantee the authenticity and traceability of foods. For these purposes, a large number of sensorial, physical, and chemical approaches can be used, which must be normally combined with advanced statistical tools. In this vein, the aim of the Special Issue “Food Authentication: Techniques, Trends, and Emerging Approaches” is to gather original research papers and review articles focused on the development and application of analytical techniques and emerging approaches in food authentication. This Special Issue comprises 12 valuable scientific contributions, including one review article and 11 original research works, dealing with the authentication of foods with great commercial value, such as olive oil, Iberian ham, and fruits, among others.

This volume on Greek synchronic etymology offers a

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set of papers evidencing the cultural significance of etymological commitment in ancient and medieval literature. The four sections illustrate the variety of approaches of the same object, which for Greek writers was much more than a technical way of studying language. Contributions focus on the functions of etymology as they were intended by the authors according to their own aims. (1)

“Philosophical issues” addresses the theory of etymology and its explanatory power, especially in Plato and in Neoplatonism. (2) “Linguistic issues” discusses various etymologizing techniques and the status of etymology, which was criticized and openly rejected by some authors. (3) “Poetical practices of etymology” investigates the ubiquitous presence of etymological reflections in learned poetry, whatever the genre, didactic, aetiological or epic. (4)

“Etymology and word-plays” addresses the vexed question of the limit between a mere pun and a real etymological explanation, which is more than once difficult to establish. The wide range of genres and authors and the interplay between theoretical reflection and applied practice shows clearly the importance of etymology in Greek thought.

This book is intended for a wide range of individuals, including scientists, students and informed laypersons who are interested in agricultural biotechnology, alternative agriculture, bioremediation of the environment and decreasing our reliance on

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pesticides and fungicides. It will deal primarily with understanding, at a biochemical and molecular biological level, how certain free living bacteria are able to promote plant growth; symbiotic bacteria such as Rhizobia will be mentioned only briefly. The assumption underlying the entire endeavour will be that a more profound understanding of these fundamental mechanisms will eventually permit scientists to manipulate these bacteria and use them more efficiently as a regular component of agricultural and/or horticultural practice. Therefore, while all the topics are discussed in as comprehensive a manner as possible, the book emphasizes a critical overview of the field rather than a mere compendium of data.

Contents: Overview of Plant Growth-Promoting Bacteria Nitrogen Fixation Siderophores Auxin Production Regulation of Plant Ethylene Levels Binding of Bacteria to Plants Biocontrol Mechanisms Deliberate Environmental Release of Bacteria Readership: Undergraduates, graduate students and researchers in biochemistry and plant biology. Keywords: Soil Bacteria; Nitrogen Fixation; Siderophores; Auxin; Plant Hormones; Phytopathogens; Biocontrol; Plant Stress; Ethylene; PGPR; Plant Growth-Promoting Rhizobacteria

Sophie Winston begins to wonder if her future brother-in-law is a murderer after his ex-wife is found

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hanging from a pergola.

This book presents broad coverage of the principles and recent developments of sample preparation and fractionation tools in Expression Proteomics in general and two-dimensional electrophoresis (2-DE) in particular. With its unique capacity to resolve thousands of proteins in a single run, 2-DE is still a fundamental research tool for nearly all protein-related scientific projects.

Offering a conceptual and factual presentation of the metabolism of drugs and other xenobiotics, these two volumes distinctly focus on the biochemistry, with an emphasis on xenobiotic-metabolizing enzymes, their reactions and regulations. The first volume is divided into three parts. Part One begins by introducing xenobiotics in the broad context of physiological metabolism, and continues with an overview of the processes of drug disposition and metabolism. It then goes on to summarize the macroscopic and microscopic locations of drug metabolism in animals and humans. This is followed by an introduction to the all-important issue of the consequences of drug and xenobiotic metabolism, providing an initial overview of pharmacokinetic, pharmacological and toxicological consequences. The last chapter examines drug metabolism in the context of drug research, with a focus on medicinal chemistry. The second part is a major component of the book, corresponding to the role of

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oxidoreductases as major agents of metabolism. Cytochromes P450 receive particular attention, namely their multiplicity, structure, catalytic mechanisms, and the various reactions they catalyze, while other oxidoreductases are also presented, such as flavin monooxygenases, monoamine oxidases and other amine oxidases, aldehyde oxidase and xanthine dehydrogenase, peroxidases, and dehydrogenases-reductases. Each drug-metabolizing enzyme or enzyme family begins with an Enzyme Identity Card summarizing its nomenclature and biochemical essentials. Part Three begins with a survey of the classification, properties and catalytic mechanism of the innumerable hydrolases known or suspected to play a role in xenobiotic metabolism. The focus then shifts to a systematic presentation of the various substrates classes, namely carboxylic esters, amides and peptides, lactams and lactones, esters of inorganic acids, alkene and arene epoxides, and some miscellaneous hydrolyzable moieties. Volume Two contains the last four parts of this work. Part 4 is devoted to the huge field of conjugation reactions, with much information being given on transferases. As in the two preceding parts, each drug-metabolizing enzyme or enzyme family begins with an Enzyme Identity Card summarizing its nomenclature and biochemical essentials. The reactions examined here include methylation,

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sulfation, glucuronidation, acetylation, conjugation with glutathione, while there is also a rigorous presentation of the pivotal role of xenobiotic-coenzyme A conjugates as a crossroads to various metabolic reactions. The next part examines the consequences of drug and xenobiotic metabolism in a pharmacological and toxicological perspective, with due attention paid to full activation, as is found with prodrugs, and to the worrying case of xenobiotic toxification. Parts 6 and 7 cover the inter-individual and intra-individual factors that influence drug metabolism, starting with an introduction to evolutionary events leading to species differences in the metabolism of xenobiotics and to polymorphisms within a particular species. Focusing on humans, the most relevant polymorphic drug-metabolizing enzymes are discussed, concentrating on ethnic differences and on the consequences for the pharmacokinetic behavior of affected drugs, while also introducing sex-dependent metabolic reactions. The final part introduces the mechanisms leading to increases or decreases in enzyme activities as the concept of enzyme induction via nuclear receptors and the different mechanisms of enzyme inhibition are explained. With these basics in mind, various influencing factors are discussed, including physiological and pathological conditions, as well as drugs, nutrients and environmental agents with a special focus on drug-drug interactions. With a

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foreword by Prof Leslie Z. Benet, the renowned biopharmaceutical scientist.

Accuracy in Spectrophotometry and Luminescence Measurements Proceedings Ancient and Medieval Greek Etymology Theory and Practice I Walter de Gruyter GmbH & Co KG

Someone has broken into the Imogene Museum. Curator Meredith Morehouse finds an empty ornate frame, the still-life painting hurriedly sheared from its moorings, and calls in Sheriff Marge Stettler as she scrambles to identify the burglar. Not because his taste in art is questionable but because the thief's intimate knowledge of the museum and its collections indicates much more is at stake. Is the thief a friend or stranger? It doesn't help that the population of Platts Landing, Washington, has just blossomed with the influx of Hollywood movie-types roaming the countryside in search of the perfect setting for their next documentary. Nor that Meredith's boyfriend, Pete, has just spotted his ex-girlfriend among the production crew. Can Meredith protect Sockeye County's iconic cultural institution and her beloved employer, Rupert Hagg, from the thief's sinister intent?

applications to the structure of atomic nuclei. The author systematically develops these models from the elementary level, through an introduction to tensor algebra, to the use of group theory in spectroscopy. The book's extensive and detailed

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appendix includes a large selection of useful formulae of tensor algebra and spectroscopy. The serious graduate student, as well as the professional physicist, will find this complete treatment of the shell model to be an invaluable addition to the literature. This edited book is a compilation of findings on the molecular and cellular toxicity of nanoparticles (NPs) in animal cell, human cells, invertebrates. The varied selection of test models will provide better understanding about the horizon of NPs toxicity. Interaction of NPs with cells and its organelles can induce toxicological consequences, including transcriptional and translational alterations, DNA damage, cytotoxicity, oxidative stress, mitochondrial dysfunction and cell death. NPs can get internalized in cells through phagocytosis, macropinocytosis, receptor-mediated endocytosis and passive penetration, which can affect varied cell types. Readers will be benefited with the compilations on basic and molecular facet of NPs toxicity. The chapters will provide a comprehensive information on the state-of-the-art methodologies. The application of toxicogenomic approaches, which is already established in nanotoxicology, has been given special consideration to unravel the toxicodynamics of nanomaterials. Among these approaches, the high-throughput RNA sequencing (RNA-Seq), which is able to build a complete map of transcriptome across different cell types and

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perturbations upon NPs exposure has been included. The readers are also introduced to the less studied topic on the adsorption of biomolecules (mainly proteins) on the NPs surface, constituting the so-called “biomolecular corona”. The book has been designed for scientists engaged in NPs toxicity research. Nonetheless, it should be of interest to a variety of scientific disciplines including marine biology, environmental pollution, genetics, pharmacology, medicine, drug and food material sciences, consumer products. Also, the compilations will be of interest to the environmental watchdogs, federal regulators, risk assessors and the policy makers.

Part of the Biology of Growing Animals series, this book presents up-to-date information on the biology of animal nutrition. It describes how dietary modulation of the gastrointestinal function in young and growing farm animals is achieved through different kinds of feed additives, such as probiotics, prebiotics, organic acids, and novel sources of feed enzymes, as well as bioactive components and metabolic modifiers. The book also discusses the role of nutrition in immune response and animal health, the problem of antinutrients - including mucotoxins and some minerals - in animal nutrition, and the biotechnological, molecular, and ecophysiological aspects of nutrition. In addition, safety and legal aspects are presented. Critical

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review and state-of-the art articles written by recognized specialists in animal nutrition and gastrointestinal physiology Novel approaches for improving gastrointestinal function in young farm animals New ways of interpretation of basic knowledge of nutrition

This book constitutes the refereed proceedings of the 6th International Conference on Electronic Government and the Information Systems Perspective, EGOVIS 2017, held in Lyon, France, in August 2017. The 20 revised full papers presented were carefully reviewed and selected from 24 submissions. The papers are organized in the following topical sections: digitalization and transparency; open data ecosystems; intelligent systems in e-government; e-government research and intelligent systems; m-government and inclusion; e-government cases - data knowledge management; and knowledge management in the context of e-government.

The modern fascination with micro- and nano-sized materials can actually be traced back further to the 1960s and '70s when the first few reported attempts were made to use nanoparticles for controlled drug delivery. In *Nanoparticles in Biology and Medicine: Methods and Protocols*, experts in the field present a wide range of methods for synthesis, surface modification, characterization, and application of nano-sized materials (nanoparticles) in life science

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and medical fields, mostly for drug delivery. The methods presented cover all stages of nanoparticle manufacturing, modification, analysis, and applications. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, Nanoparticles in Biology and Medicine: Methods and Protocols will help the beginner become familiar with this fascinating field and will provide scientists at all levels of expertise with easy-to-follow practical advice needed to make, modify, and analyze nanoparticles of their choice and to use them in a wide range of biomedical and pharmaceutical applications, including functional protein studies, drug delivery, immunochemistry, imaging, and many others.

The ability to regulate and manipulate the generation or remodeling of blood vessels is key to the successful treatment of many chronic diseases, both oncological and non-oncological. Several bioactive compounds present in human diets are now known to exert an inhibitive effect on either the signaling or construction of new blood vessels. The identification and characterization of these anti-angiogenic molecules opens a new avenue for the

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research and production of functional and medicinal foods with far reaching implications for the food-based treatment of chronic degenerative disease. Drawing from an extensive list of esteemed international contributors, *Anti-Angiogenic Functional and Medicinal Foods* explores the history and scope of the use of conventional foods, nutraceuticals, and health products in North America, Europe, the Middle East, Asia, India, Australia, and New Zealand. Recent advancements in proteomics, genomics, and toxicogenomics give us a far more detailed picture of the molecular basis of nutrition and systems toxicology. Explaining the role of angiogenesis in various chronic diseases, individual chapters consider endothelial cell responses, the mechanism of the angiogenic cascade, and the angiogenic function involved in tumors, cardiovascular disease, inflammatory arthritis, and obesity. A collection of chapters studies specific foods and their functional bioactive compounds such as the effects of edible berry anthocyanins, various Chinese medicinal foods, dietary flavonoids, probiotics, shark cartilage, EPA and DHA, and marine polysaccharides. The book concludes with a discussion of the challenges faced during the development and delivery of anti-angiogenic functional food products. Presenting the current research and state of the science, *Anti-Angiogenic Functional and Medicinal Foods* provides

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researchers, scientists, clinical nutritionists, and oncologists with a valuable reference to this important and growing mode of therapy.

Cindy and Clint are enjoying their honeymoon when paradise quickly turns into hell. Clint drowns in a freak accident in the ocean. The local police are quick to insist that he was caught in a sudden riptide. But Cindy, left all alone, is not convinced. She realizes that the only way to get answers, and to save her own life, is to return to where it all began: Barbados.

Part of the IFT Press series, this book reviews the myriad published information on bioactive components derived from marine foods, enabling researchers and product developers to select appropriate functional ingredients for new products. Chapters cover foods and food ingredients from both animal and plant marine sources, focusing on those which demonstrate biological properties and whose constituent compounds have been isolated and identified as potentially active. This book further addresses the biological activities of PUFAs (Polyunsaturated fatty acids), oils, phospholipids, proteins and peptides, fibres, carbohydrates, chitosans, vitamins and minerals, fucoxanthin, polyphenols, phytosterols, taurine, amongst others. These components, found in a variety of marine-derived foods, have been demonstrated to have preventative properties

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with regard to hypertension, oxidative stress, inflammation, cardiovascular diseases, cancer and other human diseases. Extraction methods and analysis techniques are also addressed. Intended for food scientists, food technologists and food engineers in academia, industry and government, this book reviews the substantial quantity of current research in this fast-moving and commercially valuable sector of food and nutrition science.

A guide for those who blend, distribute, and use biodiesel and biodiesel blends. Will help fleets and individual users, blenders, distributors, and those involved in related activities understand procedures for handling and using biodiesel fuels. Biodiesel is a renewable fuel manufactured from vegetable oils, animal fats, and recycled cooking oils. It offers many advantages: It is renewable; It is energy efficient; It displaces petroleum derived diesel fuel; It can be used in most diesel equipment with no or only minor modifications; It can reduce global warming gas emissions; It can reduce tailpipe emissions; It is nontoxic, biodegradable, and suitable for sensitive environments; It is made in the U.S. from either agricultural or recycled resources; and it is easy to use.

Biflavonoids are an important class of plant metabolites offering a range of activities, good availability and relatively low toxicity. Long thought to hold possible therapeutic potential, the recent surge in interest for natural product drug discovery has

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further highlighted the possibility of using them in the discovery of new drugs, and Biflavanoids: Chemical and Pharmacological Aspects provides a quick reference to the area in a focused manner, to support and encourage further research. Beginning with a focus on the structural features and occurrence of biflavanoids, Chapter 1 reviews key background information including notes on nomenclature and natural distribution. Chapter 2 then goes on to discuss methods for identification and isolation, with separation and purification using various chromatography methods reviewed, followed by identification via UV spectroscopy, NRM spectroscopy and mass spectrometry. Synthesis is the focus of Chapter 3, with a broad range of synthetic methods outlined, before the book concludes in Chapter 4 by describing the biochemical pharmacology of Biflavanoids and their anticancer, antimicrobial, antiviral, anti-inflammatory and analgesic activity. With its discussion of both the underlying chemistry and biological activity of Biflavanoids, Biflavanoids: Chemical and Pharmacological Aspects is a concise guide to this important class of compounds for all those working in the fields of medicinal chemistry and natural products drug discovery. Focused coverage of techniques for the isolation, identification, and synthesis of Biflavanoids Practical tool for researchers working with these flavonoid

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compounds Real-world expertise from the authors provides support for further developments in the growing field of natural product drug discovery Useful, clear illustrations of key structures throughout the text

Characterization is an important and fundamental step in material research before and after processing. This book focuses on the characterization of minerals, metals, and materials as well as the application of characterization results on the processing of these materials. It is a highly authoritative collection of articles written by experts from around the world. The articles center on materials characterization, extraction, processing, corrosion, welding, solidification, and method development. In addition, articles focus on clays, ceramics, composites, ferrous metals, non-ferrous metals, minerals, electronic, magnetic, environmental, advanced and soft materials. This book will serve the dual purpose of furnishing a broad introduction of the field to novices while simultaneously serving to keep subject matter experts up-to-date.

Domestication of vertebrates is based on the understanding of the needs of animals in their natural environment. Thus the success of this domestication throughout human history is largely dependant of the knowledge of the animal feeding behaviour. The aim of this volume is to provide

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advanced students and researchers with a review of current knowledge of feeding in domestic mammals and birds. The book also presents chapters on feeding behaviour in particular species; the scope is wide, covering not only ruminants, poultry and pigs, but also more specifically horses, rabbits and ostrich. Contributors include leading research workers from Europe, USA, Australia and South Africa.

This book is a review of the recent literature on the key scientific and technical subjects of fertilization management in vegetable crops. In the last decades, research on fertilization management in vegetables was aimed at producing economical yields with reduced fertilizer inputs by the development and implementation of cropping systems, nutrient management approaches and crop varieties.

Examples of the interventions in cropping systems included adequate crop rotations, inter-cropping, double cropping, and other strategies for a better soil organic matter management; nutrient management approaches included modelling, Decision Support Systems, crop nutritional status testing and precision agriculture technologies; amelioration of crop varieties has been directed toward higher nutrient/fertilizer use efficiency.

Selecting good-quality sperm for use in in-vitro fertilization is a key step in assisted reproduction. For many years purely morphological attributes have been used to assess suitability, but increasingly

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biochemical and molecular biological techniques are now identifying sperm with the best chances of producing viable and healthy embryos. Focusing on modern sperm function testing, this manual provides technical details of commonly used tests and gives an overview of the laboratory techniques used to evaluate sperm samples. Covering a variety of testing methods in detail, from manual and computer-assisted semen analysis to zona pellucida binding assays, and tests assessing sperm DNA damage such as the TUNEL assay. Describing the underlying science, practical advice for performing the tests is given, including tips for optimizing outcomes and trouble-shooting. This is an essential guide for reproductive medicine specialists, clinical andrologists, urologists and gynecologists working with sub-fertile men.

Discusses the fundamental aspects of structure-property relationships in superabsorbent polymers, including network modeling and compressibility of ionic gels. Describes methods of preparation and specification of superabsorbents. Presents novel methods of preparation resulting in absorbent polymers with advanced properties. Examines emerging applications of superabsorbent polymers in the construction, agriculture, food, leisure, and communications industries. Highlights the many ways we are all linked to the world around us.

Traditional food and bioprocessing technologies are facing challenges due to high expectation from the consumers and producers for better quality and safety, higher process efficiency, and products with novel properties or

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functionalities. For this reason, in the last few years new forms of physical energies have been explored to propose alternatives to traditional processing technologies. Acoustic energy has the potential to replace or partially substitute conventional processes, and at the same time offer unique opportunities in the characterization of foods and biomaterials. This book is a resource for experts and newcomers in the field of power ultrasound, gives insights into the physical principles of this technology, details the latest advancements, and links them to current and potential applications in the food and bioprocessing related industries. Since the first edition of Protein Nanotechnology Protocols Instruments and Applications the intersection of protein science and nanotechnology has become an exciting frontier in interdisciplinary sciences. The second edition of Protein Nanotechnology Protocols Instruments and Applications expands upon the previous editions with current, detailed chapters that provide examples of proteins which are now being harnessed for a wide range of applications, some more developed than others. This book also delves into engineering proteins and an overview of the sorts of tools that are now readily available to manipulate the structure and function of proteins, both rationally and using methods inspired by evolution. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Protein Nanotechnology Protocols Instruments and Applications, Second Edition seeks to provide an overview of this multi-faceted field and a useful guide to those who wish to contribute to it.

Positron emission tomography/computed tomography

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(PET/CT), as any other imaging modality, is acceptable for routine clinical and research applications only if technical pitfalls can be avoided. Artefacts from incorrect or sub-optimal acquisition procedures should be recognized and, if possible, corrected retrospectively and the resulting image information interpreted correctly, which entails an appreciation of variants of the represented image information. This publication provides guidance on the physics and technical aspects behind PET and PET/CT image distortions. Cases are presented to provide nuclear medicine and radiology professionals with an assortment of examples of possible image distortions and errors in order to support a correct image interpretation. Nearly 70 typical PET and PET/CT cases, comprising image sets and cases, have been collected in this volume, all catalogued and augmented with explanations as to the causes of, and solutions to, each individual image problem. The atlas will prove useful to physicists, physicians, technologists, and service engineers in the clinical field.

The TMS 2016 Annual Meeting Supplemental Proceedings is a collection of papers from the TMS 2016 Annual Meeting & Exhibition, held February 14-18 in Nashville, Tennessee, USA. The papers in this volume represent 21 symposia from the meeting. This volume, along with the other proceedings volumes published for the meeting, and archival journals, such as Metallurgical and Materials Transactions and Journal of Electronic Materials, represents the available written record of the 67 symposia held at TMS2016. This proceedings volume contains both edited and unedited papers; the unedited papers have not necessarily been reviewed by the symposium organizers and are presented "as is." The opinions and statements expressed within the papers are those of the individual authors only, and no confirmations or endorsements are intended or implied.

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In response to concerns about animal welfare, food assurance schemes are now incorporating standards for animal welfare. This is particularly important in the poultry industry, where much attention has focused on the welfare of broilers (meat birds). However, there is as a result a greater need for scientifically-based methods for the measurement and auditing of welfare. This book brings together papers by international experts from the academic, professional and industrial sectors. It examines practical ways of measuring and auditing broiler welfare on-farm, during transit and pre-slaughter. Related marketing issues and future developments such as automation, are also discussed.

Since the first works introducing the aluminum intercalated clay family in the early 1970s, interest in the synthesis of pillared interlayered clays has increased tremendously, especially research into the properties and applications of new synthesis methods. The need for solids that could be used as cracking catalysts with larger pores than zeolitic materials has spurred the synthesis of new porous materials from clays. Pillared Clays and Related Catalysts reviews the properties and applications of pillared clays and other layered materials used as catalysts, focusing on: the acidity of pillared clays and the effect it has on catalytic performance the use of pillared clays as supports for catalytically active phases, and the use of the resulting solids in environmentally friendly reactions the applications of the selective reduction of NOx the comparison between the reactions of pillared clays and anionic clays.

Encouraged by the success of the Italian editions, the Authors have decided to publish an English version taking into account the latest technical and methodological advances and the consequent new acquisitions in clinical practice. The contribution of Professor R. Jinkins has been essential to carry out both these tasks. The resulting work is

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an up-to-date technical tool that preserves its original aim of contributing to the training of those radiologists who work in emergency departments. We hope that this revised and extended English version will have the same success as the previous Italian editions, thereby confirming the validity of our initiative. The work of all the friends and colleagues who have contributed to the making of this book is gratefully acknowledged. Tommaso Scarabino Ugo Salvolini

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Basing on the International Symposium "Mycorrhiza for Plant Vitality", in honour of late Professor Dr. Fritz Schonbeck, this book fits into the main objectives of the recent European research network of COST Action 870 (From production to application of arbuscular mycorrhizal fungi in agricultural systems: a multidisciplinary approach) increasing the knowledge needed for the practical implementation of mycorrhizal fungi in plant production systems. Researchers and practitioners from several countries focus on "ready for use applications", and make results of projects available for interested scientists, advisers and users of the mycorrhizal technology.

Different phases of fruit development and utilization have been treated in many textbooks, reviews, and a host of scientific and professional papers. This seems, however, to be the first attempt to bring together case histories of so many different fruits and to present a balanced account of the whole period from set to harvest. Postharvest physiology, which has been in the centre of the picture in many former books, is at the bored line of the subject matter of this book, and has not been fully covered, except in a few cases. For this reason, two separate chapters deal with physiological and pathological aspects of fruit life after harvest.

This reference work explains the grammar and syntax of botanical Latin, and covers the roots and origins of Latin and latinised geographical names, colour terms, symbols and abbreviations, diagnoses and descriptions, and the formation of names and epithets.

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