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Solid Phase Microextraction Gangfeng Ouyang 2016-11-24 This book offers comprehensive information on the developments and applications of the solid phase microextraction (SPME) technique. The first part of the book briefly introduces readers to the fundamentals of SPME, while subsequent sections describe the applications of SPME technique in detail, including environmental analysis (air, water, soil/sediments), food analysis (volatile/nonvolatile compounds), and bioanalysis (plants, animal tissues, body fluids). The advantages and future challenges of the SPME technique are also discussed. Including recent research advances and further developments of SPME, the book offers a practical reference guide and a valuable resource for researchers and users of SPME techniques. The target audience includes analytical chemists, environmental scientists, biological scientists, material scientists, and analysts, as well as students at universities/institutes in related fields. Dr. Gangfeng Ouyang is a Professor at the School of Chemistry and Chemical Engineering, Sun Yat-sen University, China. Dr. Ruifen Jiang is an Associate Professor at the

School of Environment, Jinan University, China.

Caspases, Paracaspases, and Metacaspases Peter V. Bozhkov 2014-02-25 Caspases, Paracaspases, and Metacaspases: Methods and Protocols is a collection of laboratory protocols covering current methods that are employed to measure and detect activities of these proteases in diverse biological systems, ranging from unicellular organisms to mammals. Broken into two parts, the first part focuses on methods to measure, detect, and inhibit activation and activity of a subset of or specific caspases in vitro and in several model systems and organisms, primarily in the context of programmed cell death. The second part of the book provides experimental protocols for purification and in vitro and in vivo analysis of yeast, protozoan and plant metacaspases, as well as of a human paracaspase MALT1. Written in the highly successful Methods in Molecular Biology series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory. Authoritative and practical, Caspases, Paracaspases, and Metacaspases: Methods and Protocols

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seeks to aid scientists easy-to-follow techniques.

The Nature of Plant Communities J. Bastow Wilson 2019-03-31 Provides a comprehensive review of the role of species interactions in the process of plant community assembly.

Dietary reference values for energy Scientific Advisory Committee on Nutrition 2012-05-02 Dietary reference values (DRVs) for energy are based on estimating the total energy expenditure (TEE) for groups of people. TEE provides a measure of the energy requirement at energy balance i.e. when energy intake matches energy expenditure. The methodology to measure TEE - the doubly labelled water (DLW) method - has advanced and as a result, the evidence base on TEE in a wide variety of population groups has expanded considerably. With the high levels of overweight and obesity currently seen in the UK and the wealth of new data now available, it was considered timely for the Scientific Advisory Committee on Nutrition (SACN) to review recommendations for the UK population. This report details the evidence and approaches SACN have considered in order to update the DRVs for energy. SACN chose a prescriptive approach to estimating energy reference values; suitable reference body weight ranges consistent with long-term good health were used to calculate energy reference values. Thus, basal metabolic rate (BMR) values were predicted using healthy reference body weights. Using this approach, if overweight groups consume the amount of energy recommended for healthy weight groups, they are likely to lose weight, whereas underweight sections of the population should gain weight towards the healthy body weight range. SACN has derived new energy reference values. For most

population groups, except for infants and young children, the values have increased. DRVs should be used to assess the energy requirements for large groups of people and populations, but should not be applied to individuals due to the large variation in physical activity and energy expenditure observed between people.

Entangled Life Merlin Sheldrake 2020-09-03 The smash-hit Sunday Times bestseller that will transform your understanding of our planet and life itself. 'Dazzling, vibrant, vision-changing' Robert Macfarlane Winner of the Royal Society Science Book Prize 2021 Winner of the Wainwright Prize for Conservation Writing 2021 The more we learn about fungi, the less makes sense without them. They can change our minds, heal our bodies and even help us avoid environmental disaster; they are metabolic masters, earth-makers and key players in most of nature's processes. In *Entangled Life*, Merlin Sheldrake takes us on a mind-altering journey into their spectacular world, and reveals how these extraordinary organisms transform our understanding of our planet and life itself. 'Gorgeous!' Margaret Atwood (on Twitter) 'Reads like an adventure story... Wondrous' Sunday Times 'Urgent, astounding and necessary' Helen Macdonald 'A magical writer' Russell Brand * A Sunday Times, Daily Telegraph, New Statesman, The Times, Evening Standard, Mail on Sunday, BBC Science Focus, TLS and Time Book of the Year *

Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes (TADF-OLEDs) Lian Duan 2021-10-15 Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes (TADF-OLEDs) comprehensively introduces the history of TADF, along with a review of fundamental concepts. Then, TADF

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emitters with different colors, such as blue, green, red and NIR as well as white OLEDs are discussed in detail. Other sections cover exciplex-type TADF materials, emerging application of TADF emitters as a host in OLEDs, and applications of TADF materials in organic lasers and biosensing. Discusses green, blue, red, NIR and white TADF emitters and their design strategies for improved performance for light-emitting diode applications Addresses emerging materials, such as molecular and exciplex-based TADF materials Includes emerging applications like lasers and biosensors

Botanical Leads for Drug Discovery

Bikarma Singh 2020-10-05 Active botanical ingredients are a prime requirement for herbal formulations and discovering a drug is all about integration of science disciplines. In recent decades there has been a growing interest in treating wounds and diseases using traditional remedies based on local herbs, combined with chemical advances. Although this has led to the development of new bioactive ingredients from plants, there has been little success in terms of clinical trials and post-marketing studies to comply with FDA guidelines. Plants have been used as a source of medicine throughout history and continue to serve as the basis for many pharmaceuticals used today. However, despite the modern pharmaceutical industry being founded on botanical medicine, synthetic approaches to drug discovery have now become standard. Science-driven translational discovery and botanical development has created a new reality, leading to enormous changes in strategies, technologies and the disciplines involved, which have been embraced by the pharmaceutical and biotech industries. This book gathers scientific expertise and traditional

knowledge to promote the discovery and development of new formulations and drugs based on active ingredients and to provide guidance on taking these to clinical trials. It discusses major topics, such as how the phytochemical composition of many plants has changed over time due to factors like cultivation, which can have both positive and negative effects on the levels of bioactive compounds. It also explores the importance of plants as a valuable source of therapeutic compounds as a result of their vast biosynthetic capacity, and classifies them according to their intended use, safety and regulatory status. Further, the book offers insights into the regulatory aspects of botanical products, which is an important issue when considering standardization and quality assessment, and also examines the commercial aspects of plant-derived medications and their proven role in the treatment of chronic diseases such as heart disease, high blood pressure, pain, asthma, and other associated conditions. Given its scope, this book is a valuable tool for botanists, natural product chemists, pharmacologists and microbiologists involved in the study of phytochemicals for drug discovery. Dietary Reference Intakes for Vitamin C, Vitamin E, Selenium, and Carotenoids Institute of Medicine 2000-08-27 This volume is the newest release in the authoritative series of quantitative estimates of nutrient intakes to be used for planning and assessing diets for healthy people. Dietary Reference Intakes (DRIs) is the newest framework for an expanded approach developed by U.S. and Canadian scientists. This book discusses in detail the role of vitamin C, vitamin E, selenium, and the carotenoids in human physiology and health. For each nutrient the

committee presents what is known about how it functions in the human body, which factors may affect how it works, and how the nutrient may be related to chronic disease. Dietary Reference Intakes provides reference intakes, such as Recommended Dietary Allowances (RDAs), for use in planning nutritionally adequate diets for different groups based on age and gender, along with a new reference intake, the Tolerable Upper Intake Level (UL), designed to assist an individual in knowing how much is "too much" of a nutrient.

Blended Learning. Enhancing Learning Success Simon K.S. Cheung 2018-07-21 This book constitutes the refereed proceedings of the 11th International Conference on Blended Learning, ICBL 2018, held in Osaka, Japan, in July/August 2018. The 35 papers presented were carefully reviewed and selected from 94 submissions. The papers are organized in topical sections named: Experiences in Blended Learning, Content Development for Blended Learning, Assessment for Blended Learning, Computer-Support Collaborative Learning, Improved Flexibility of Learning Processes, Open Educational Resources, and Pedagogical and Psychological Issues.

Vegetation Ecology Eddy van der Maarel 2012-10-24 Additional resources for this book can be found at: <http://www.wiley.com/go/vandermaarelfranklin/vegetationecology> www.wiley.com/go/vandermaarelfranklin/vegetationecology/a. **Vegetation Ecology, 2nd Edition** is a comprehensive, integrated account of plant communities and their environments. Written by leading experts in their field from four continents, this second edition of this book: covers the composition, structure, ecology, dynamics, diversity, biotic interactions and distribution of

plant communities, with an emphasis on functional adaptations; reviews modern developments in vegetation ecology in a historical perspective; presents a coherent view on vegetation ecology while integrating population ecology, dispersal biology, soil biology, ecosystem ecology and global change studies; tackles applied aspects of vegetation ecology, including management of communities and invasive species; includes new chapters addressing the classification and mapping of vegetation, and the significance of plant functional types. **Vegetation Ecology, 2nd Edition** is aimed at advanced undergraduates, graduates and researchers and teachers in plant ecology, geography, forestry and nature conservation.

Vegetation Ecology takes an integrated, multidisciplinary approach and will be welcomed as an essential reference for plant ecologists the world over.

Robot Ghosts and Wired Dreams Christopher Bolton 2007 Since the end of the Second World War--and particularly over the last decade--Japanese science fiction has strongly influenced global popular culture. Unlike American and British science fiction, its most popular examples have been visual--from *Gojira* (Godzilla) and *Astro Boy* in the 1950s and 1960s to the anime masterpieces *Akira* and *Ghost in the Shell* of the 1980s and 1990s--while little attention has been paid to a vibrant tradition of prose science fiction in Japan. *Robot Ghosts and Wired Dreams* remedies this neglect with a rich exploration of the genre that connects prose science fiction to contemporary anime. Bringing together Western scholars and leading Japanese critics, this groundbreaking work traces the beginnings, evolution, and future direction of science fiction in Japan, its major schools and

authors, cultural origins and relationship to its Western counterparts, the role of the genre in the formation of Japan's national and political identity, and its unique fan culture. Covering a remarkable range of texts--from the 1930s fantastic detective fiction of Yumeno Kyûsaku to the cross-culturally produced and marketed film and video game franchise Final Fantasy--this book firmly establishes Japanese science fiction as a vital and exciting genre. Contributors: Hiroki Azuma; Hiroko Chiba, DePauw U; Naoki Chiba; William O. Gardner, Swarthmore College; Mari Kotani; Livia Monnet, U of Montreal; Miri Nakamura, Stanford U; Susan Napier, Tufts U; Sharalyn Orbaugh, U of British Columbia; Tamaki Saitô; Thomas Schnellbacher, Berlin Free U. Christopher Bolton is assistant professor of Japanese at Williams College. Istvan Csicsery-Ronay Jr. is professor of English at DePauw University. Takayuki Tatsumi is professor of English at Keio University.

Spectrum Algebra 2015-02-15 With the help of Spectrum Algebra for grades 6 to 8, your child develops problem-solving math skills they can build on. This standards-based workbook focuses on middle school algebra concepts like equalities, inequalities, factors, fractions, proportions, functions, and more. Middle school is known for its challenges--let Spectrum ease some stress. Developed by education experts, the Spectrum Middle School Math series strengthens the important home-to-school connection and prepares children for math success. Filled with easy instructions and rigorous practice, Spectrum Algebra helps children soar in a standards-based classroom!

Savage Paradise Cassie Edwards 2008 Mariana Fowler despises the hardships

and loneliness of the wilderness Minnesota Territory, until she meets Lone Hawk, the handsome Chippewa warrior who saves her life. Reissue. Words to Rhyme with Willard R. Espy 2001 Lists more than 80,000 rhyming words, including single, double, and triple rhymes, and offers information on rhyme schemes, meter, and poetic forms.

Atoms, Solids, and Plasmas in Super-Intense Laser Fields Dimitri Batani 2012-12-06 The recent development of high power lasers, delivering femtosecond pulses of 20 2 intensities up to 10 W/cm , has led to the discovery of new phenomena in laser interactions with matter. At these enormous laser intensities, atoms, and molecules are exposed to extreme conditions and new phenomena occur, such as the very rapid multi photon ionization of atomic systems, the emission by these systems of very high order harmonics of the exciting laser light, the Coulomb explosion of molecules, and the acceleration of electrons close to the velocity of light. These phenomena generate new behaviour of bulk matter in intense laser fields, with great potential for wide ranging applications which include the study of ultra-fast processes, the development of high-frequency lasers, and the investigation of the properties of plasmas and condensed matter under extreme conditions of temperature and pressure. In particular, the concept of the "fast ignitor" approach to inertial confinement fusion (ICF) has been proposed, which is based on the separation of the compression and the ignition phases in laser-driven ICF. The aim of this course on "Atom, Solids and Plasmas in Super-Intense Laser fields" was to bring together senior researchers and students in atomic and molecular physics, laser physics, condensed matter and plasma physics, in order to review recent

developments in high-intensity laser-matter interactions. The course was held at the Ettore Majorana International Centre for Scientific Culture in Erice from July 8 to July 14, 2000.

Protein Misfolding and Cellular Stress in Disease and Aging Peter Bross 2010-09-06 How and why certain proteins misfold and how this misfolding is linked to many disease processes has become a well-documented topic of study. Protein Misfolding and Cellular Stress in Disease and Aging: Concepts and Protocols moves beyond the basics to emphasize the molecular effects of protein misfolding at a cellular level, to delineate the impacts and cellular reactions that play a role in pathogenetic mechanisms, and to pinpoint possible manipulations and treatment strategies that can counteract, modify, or delay the consequences of misfolding. The volume begins with several concepts and approaches developed in the recent past including a connection to the research field of aging, where protein misfolding diseases have been equated to premature aging processes, and the book's coverage continues with detailed descriptions of protocols for relevant experimental approaches. Written in the highly successful *Methods in Molecular Biology*™ series format, protocol 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. Authoritative and cutting-edge, *Protein Misfolding and Cellular Stress in Disease and Aging: Concepts and Protocols* aims to aid researchers in the field, as well as medical professionals and molecular biologists, in shaping and performing research related to this intriguing

and vital subject.

Glycobiology of the Nervous System

Robert K. Yu 2014-08-23 A thorough introduction is provided to the variety and complexity of the roles that glycoconjugates play in the cells of the nervous system. Basic information as well as the latest developments in neural glycobiology are discussed. Topics covered range from the structure and metabolism of the saccharide chains and current approaches used in their study, to changes glycoconjugates undergo during development and aging of the nervous system and the roles they have in neurological disease. The breadth and depth of topics covered make it an essential reference for those new to the field as well more seasoned investigators.

Plant-derived Natural Products Anne E. Osbourn 2009-07-07 Plants produce a huge array of natural products (secondary metabolites). These compounds have important ecological functions, providing protection against attack by herbivores and microbes and serving as attractants for pollinators and seed-dispersing agents. They may also contribute to competition and invasiveness by suppressing the growth of neighboring plant species (a phenomenon known as allelopathy). Humans exploit natural products as sources of drugs, flavoring agents, fragrances and for a wide range of other applications. Rapid progress has been made in recent years in understanding natural product synthesis, regulation and function and the evolution of metabolic diversity. It is timely to bring this information together with contemporary advances in chemistry, plant biology, ecology, agronomy and human health to provide a comprehensive guide to plant-derived natural products. *Plant-derived natural products: synthesis, function and application* provides an

informative and accessible overview of the different facets of the field, ranging from an introduction to the different classes of natural products through developments in natural product chemistry and biology to ecological interactions and the significance of plant-derived natural products for humans. In the final section of the book a series of chapters on new trends covers metabolic engineering, genome-wide approaches, the metabolic consequences of genetic modification, developments in traditional medicines and nutraceuticals, natural products as leads for drug discovery and novel non-food crops.

Enamel Research: Mechanisms and Characterization Bernhard Ganss 2016-11-23 The rodent incisor is a good model system to study the molecular and cellular events that are involved in enamel biomineralization. Incisors in rodents continuously erupt during their lifespan, thus allowing the study of all stages of enamel synthesis, deposition, mineralization and maturation in the same tissue section. This model system has provided invaluable insight into the specifics of enamel formation as a basis to understand human pathologies such as amelogenesis imperfecta. Furthermore, the rodent incisor allows exploration and understanding of some of the most fundamental mechanisms that govern biomineralization. Enamel is the most mineralized, hardest tissue in the body. It is formed within a unique organic matrix that, unlike other hard tissues such as bone and dentin, does not contain collagen. The formation of enamel can be divided into two main stages: the secretory and maturation stage. During the secretory stage, a highly ordered arrangement of hydroxyapatite crystals is formed under the

influence of structural matrix proteins such as amelogenin, ameloblastin and enamelin. During the maturation stage, the organic matrix is removed and hydroxyapatite crystals expand to ultimately yield a functional hard structure consisting of over 96% mineral. Research efforts over the past decades have mainly focused on the secretory stage, providing novel insights into the concept of biomineralization. However, the events that occur during the maturation stage have not been yet explored in detail, likely because the physiological roles of the enamel-forming ameloblasts are more diverse and complex at this stage. Mature ameloblasts are involved in the regulation of calcium transport in large amounts, phosphate and protein fragments in and out of the maturing enamel and provide regulatory mechanisms for the control of the pH. In recent years, increased efforts have been dedicated towards defining the molecular events during enamel maturation. The development of an ever-increasing number of transgenic animal models has clearly demonstrated the essential roles of matrix and non-matrix proteins during enamel formation. Multiple traditional and modern analytical techniques are applied for the characterization of enamel in these animals. The need for this Research Topic therefore stems from new information that has been generated on molecular events during the enamel maturation stage and the development and application of highly advanced analytical techniques to characterize dental enamel. The benefits and limitations of these techniques need to be reviewed and their application standardized for valid comparative studies.

Edible Medicinal And Non-Medicinal Plants T. K. Lim 2012-06-11 This book continues as volume 4 of a multi-

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compendium on Edible Medicinal and Non-Medicinal Plants. It covers edible fruits/seeds used fresh or processed, as vegetables, spices, stimulants, edible oils and beverages. It encompasses selected species from the following families: Fagaceae, Grossulariaceae, Hypoxidaceae, Myrsinaceae Olacaceae, Oleaceae, Orchidaceae, Oxalidaceae, Pandanaceae, Passifloraceae, Pedaliaceae, Phyllanthaceae, Pinaceae, Piperaceae, Rosaceae and Rutaceae . This work will be of significant interest to scientists, researchers, medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, agriculturists, botanists, conservationists, lecturers, students and the general public. Topics covered include: taxonomy; common/English and vernacular names; origin and distribution; agroecology; edible plant parts and uses; botany; nutritive and pharmacological properties, medicinal uses and research findings; nonedible uses; and selected references.

Cracking the Code 3 Better Book & Cassette of America 2002-02-01

Religion and the Body Sarah Coakley 2000-07-15 A rich source for comparative studies of the 'body', and of its relation to society.

Zeolite Synthesis Mario L. Ocelli 1989 This volume is a complete progress report on the various aspects of zeolite synthesis on a molecular level. It provides many examples that illustrate how zeolites can be crystallized and what the important parameters are that control crystallization. Forty-two chapters cover such topics as: crystallization techniques; gel chemistry; crystal size and morphology; the role of organic compounds; and novel synthesis procedures. It offers a complete review of zeolite synthesis as well as the latest finding in this

important field. Contains benchmark contributions from many notable pioneers in the field, including R.M. Barrer, H. Robson, and Robert Milton. Handbook of Filter Media Derek B. Purchas 2002-11-11 An Introduction to Filter Media -- Textiles -- Filter Papers and Filter Sheets -- Media for air and gas filters -- Screens and Meshes -- Porous Sheets and Tubes (excluding Membranes) -- Membranes -- Cartridges and Special Fabrications - - Loose Powders, granules and fibres -- Testing filter media.

Cannabinoids in Neurologic and Mental Disease Liana Fattore 2015-01-23 The application of cannabis sativa for the treatment of neurologic and mental disease is expanding.

Cannabinoids in Neurologic and Mental Disease collects and presents for the first time recent research involving the use of pharmacological cannabinoids for the treatment of neurodegenerative and neuroinflammatory disease. The neurologic application of cannabinoid therapy builds upon psychiatric and psychological use for the treatment of a variety of core mental disorders. This comprehensive reference on the known uses of cannabinoids will be useful for clinical neurologists, neuroscience and clinical neuroscience researchers, clinical psychologists and psychiatrists and the general medical community. A comprehensive reference on the clinical uses of cannabinoids for treating major neurologic and mental diseases Detailed coverage of cannabinoid use for neuroinflammatory and neurodegenerative disease including Multiple Sclerosis, Epilepsy, Huntington's disease, Parkinson's disease, and Alzheimer's disease Detailed coverage of cannabinoid use for major psychiatric and psychological diseases and disorders including schizophrenia, bipolar

disorders, Tourette's syndrome, and post-traumatic stress disorder (PTSD)

New Directions in Conservation Medicine A. Alonso Aguirre 2012-05-28

In recent years, species and ecosystems have been threatened by many anthropogenic factors manifested in local and global declines of populations and species. Although we consider conservation medicine an emerging field, the concept is the result of the long evolution of transdisciplinary thinking within the health and ecological sciences and the better understanding of the complexity within these various fields of knowledge. Conservation medicine was born from the cross fertilization of ideas generated by this new transdisciplinary design. It examines the links among changes in climate, habitat quality, and land use; emergence and re-emergence of infectious agents, parasites and environmental contaminants; and maintenance of biodiversity and ecosystem functions as they sustain the health of plant and animal communities including humans. During the past ten years, new tools and institutional initiatives for assessing and monitoring ecological health concerns have emerged: landscape epidemiology, disease ecological modeling and web-based analytics. New types of integrated ecological health assessment are being deployed; these efforts incorporate environmental indicator studies with specific biomedical diagnostic tools. Other innovations include the development of non-invasive physiological and behavioral monitoring techniques; the adaptation of modern molecular biological and biomedical techniques; the design of population level disease monitoring strategies; the creation of ecosystem-based health and sentinel species surveillance approaches; and the adaptation of health monitoring

systems for appropriate developing country situations. **New Directions of Conservation Medicine: Applied Cases of Ecological Health** addresses these issues with relevant case studies and detailed applied examples. **New Directions of Conservation Medicine** challenges the notion that human health is an isolated concern removed from the bounds of ecology and species interactions. Human health, animal health, and ecosystem health are moving closer together and at some point, it will be inconceivable that there was ever a clear division.

Twelve Years a Slave Solomon Northup 2021-01-01 "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Zeolites in Catalysis Jiří Čejka 2017-06-07 Covering the breadth of zeolite chemistry and catalysis, this book provides the reader with a complete introduction to field, covering synthesis, structure, characterisation and applications. Beginning with the history of natural and synthetic zeolites, the reader will learn how zeolite structures are formed, synthetic routes, and experimental and theoretical structure determination techniques. Their industrial applications are covered in-depth, from their use in the petrochemical industry, through to fine chemicals and more specialised clinical applications. Novel zeolite materials are covered, including hierarchical zeolites and two-dimensional zeolites, showcasing modern developments in the field.

This book is ideal for newcomers who need to get up to speed with zeolite chemistry, and also experienced researchers who will find this a modern, up-to-date guide.

Comparative and Evolutionary Genomics of Angiosperm Trees Andrew Groover

2017-11-21 Marking the change in focus of tree genomics from single species to comparative approaches, this book covers biological, genomic, and evolutionary aspects of angiosperm trees that provide information and perspectives to support researchers broadening the focus of their research. The diversity of angiosperm trees in morphology, anatomy, physiology and biochemistry has been described and cataloged by various scientific disciplines, but the molecular, genetic, and evolutionary mechanisms underlying this diversity have only recently been explored. Excitingly, advances in genomic and sequencing technologies are ushering a new era of research broadly termed comparative genomics, which simultaneously exploits and describes the evolutionary origins and genetic regulation of traits of interest. Within tree genomics, this research is already underway, as the number of complete genome sequences available for angiosperm trees is increasing at an impressive pace and the number of species for which RNAseq data are available is rapidly expanding. Because they are extensively covered by other literature and are rapidly changing, technical and computational approaches—such as the latest sequencing technologies—are not a main focus of this book. Instead, this comprehensive volume provides a valuable, broader view of tree genomics whose relevance will outlive the particulars of current-day technical approaches. The first section of the book discusses background on the evolution and

diversification of angiosperm trees, as well as offers description of the salient features and diversity of the unique physiology and wood anatomy of angiosperm trees. The second section explores the two most advanced model angiosperm tree species (poplars and eucalypts) as well as species that are soon to emerge as new models. The third section describes the structural features and evolutionary histories of angiosperm tree genomes, followed by a fourth section focusing on the genomics of traits of biological, ecological, and economic interest. In summary, this book is a timely and well-referenced foundational resource for the forest tree community looking to embrace comparative approaches for the study of angiosperm trees.

Modern Alkaloids Ernesto Fattorusso
2008-01-08 This book presents all important aspects of modern alkaloid chemistry, making it the only work of its kind to offer up-to-date and comprehensive coverage. While the first part concentrates on the structure and biology of bioactive alkaloids, the second one analyzes new trends in alkaloid isolation and structure elucidation, as well as in alkaloid synthesis and biosynthesis. A must for biochemists, organic, natural products, and medicinal chemists, as well as pharmacologists, pharmacutists, and those working in the pharmaceutical industry.

Ubiquitin and Autophagy Taras Y. Nazarko
2021-08-18 This book is a collection of articles from the Cells Special Issue on “Ubiquitin and Autophagy”. It contains an Editorial and 13 articles at the intersection of ubiquitin- and autophagy-related processes. Ubiquitin is a small protein modifier that is widely used to tag proteins, organelles, and pathogens for their degradation by the ubiquitin–proteasome system and/or autophagy–lysosomal pathway.

Interestingly, several ubiquitin-like proteins are at a core of the autophagy mechanism. This book dedicates a lot of attention to the crosstalk between the ubiquitin–proteasome system and autophagy and serves as a good starting point for the readers interested in the current state of the knowledge on ubiquitin and autophagy.

Covalent Organic Frameworks Atsushi Nagai 2020-02-03 Rational synthesis of extended arrays of organic matter in bulk, solution, crystals, and thin films has always been a paramount goal of chemistry. The classical synthetic tools to obtain long-range regularity are, however, limited to noncovalent interactions, which usually yield structurally more random products. Hence, a combination of porosity and regularity in organic covalently bonded materials requires not only the design of molecular building blocks that allow for growth into a nonperturbed, regular geometry but also a condensation mechanism that progresses under reversible, thermodynamic, self-optimizing conditions. Covalent organic frameworks (COFs), a variety of 2D crystalline porous materials composed of light elements, resemble an sp²-carbon-based graphene sheet but have a different molecular skeleton formed by orderly linkage of building blocks to constitute a flat organic sheet. COFs have attracted considerable attention in the past decade because of their versatile applications in gas storage and separation, catalysis, sensing, drug delivery, and optoelectronic materials development. Compared to other porous materials, COFs allow for atomically precise control of their architectures by changing the structure of their building blocks, whereby the shapes and sizes of their pores can be well-tuned. Covalent

Organic Frameworks is a compilation of different topics in COF research, from COF design and synthesis, crystallization, and structural linkages to the theory of gas sorption and various applications of COFs, such as heterogeneous catalysts, energy storage (e.g., semiconductors and batteries), and biomedicine. This handbook will appeal to anyone interested in nanotechnology and new materials of gas adsorption and storage, heterogeneous catalysts, electronic devices, and biomedical devices.

Bee Products - Chemical and Biological Properties José M Alvarez-Suarez 2017-09-05 This book presents an updated discussion of the chemical composition and biological properties of the main bee products. Specific attention is focused on the beneficial biological activities of bee products in human health. Honey, royal jelly, propolis, bee pollen and bee venom are used as nutriment and in traditional medicine. Their composition is rather variable and depends on the floral source and external factors, such as seasonal, environmental conditions and processing. Bee products are rich in several essential nutrients and non essential nutrients, as sugars, minerals, proteins, free amino acids, vitamins, enzymes and polyphenols, that seem to be closely related to their biological functions. The effects of these products in nutrition, aging and age-related diseases, cancer, neurodegenerative diseases and pathogen infections are discussed.

Industrial Applications for Intelligent Polymers and Coatings Majid Hosseini 2016-05-14 This book is a comprehensive collaboration on intelligent polymers and coatings for industrial applications by worldwide researchers and specialists. The authors cover the basis and

fundamental aspects of intelligent polymers and coatings, challenges, and potential mechanisms and properties. They include recent and emerging industrial applications in medical, smart textile design, oil and gas, electronic, aerospace, and automobile industries as well as other applications including microsystems, sensors, and actuators, among others. The authors discuss the potential for future research in these areas for improvement and growth of marketable applications of intelligent polymers and coatings.

Towards a New Architecture Le Corbusier 2013-04-09 Pioneering manifesto by founder of "International School." Technical and aesthetic theories, views of industry, economics, relation of form to function, "mass-production split," and much more. Profusely illustrated.

Boolean Functions Yves Crama 2011-05-16 Written by prominent experts in the field, this monograph provides the first comprehensive, unified presentation of the structural, algorithmic and applied aspects of the theory of Boolean functions. The book focuses on algebraic representations of Boolean functions, especially disjunctive and conjunctive normal form representations. This framework looks at the fundamental elements of the theory (Boolean equations and satisfiability problems, prime implicants and associated short representations, dualization), an in-depth study of special classes of Boolean functions (quadratic, Horn, shellable, regular, threshold, read-once functions and their characterization by functional equations) and two fruitful generalizations of the concept of Boolean functions (partially defined functions and pseudo-Boolean functions). Several topics are presented here in book form for the

first time. Because of the depth and breadth and its emphasis on algorithms and applications, this monograph will have special appeal for researchers and graduate students in discrete mathematics, operations research, computer science, engineering and economics.

The Psychotronic Video Guide Michael Weldon 1996

Calligraphy Lesson Mikhail Shishkin 2015-04-27 The first English-language collection of short stories by Russia's greatest contemporary author, Mikhail Shishkin, the only author to win all three of Russia's most prestigious literary awards. Often included in discussions of Nobel Prize contenders, Shishkin is a master prose writer in the breathtakingly beautiful style of the greatest Russian authors, known for complex, allusive novels about universal and emotional themes. Shishkin's stories read like modern versions of the eternal literature written by his greatest inspirations: Boris Pasternak, Ivan Bunin, Leo Tolstoy, and Mikhail Bulgakov. Shishkin's short fiction is the perfect introduction to his breathtaking oeuvre, his stories touch on the same big themes as his novels, spanning discussions of love and loss, death and eternal life, emigration and exile. *Calligraphy Lesson* spans Shishkin's entire writing career, including his first published story, the 1993 Debut Prize-winning "Calligraphy Lesson," and his most recent story "Nabokov's Inkblot," which was written for a dramatic adaptation performed in Zurich in 2013. Mikhail Shishkin (b. 1961 in Moscow) is one of the most prominent names in contemporary Russian literature. A former interpreter for refugees in Switzerland, Shishkin divides his time between Moscow, Switzerland, and Germany.

Chemistry of Uranium Joseph Jacob
Katz 1958

Apollo's Angels Jennifer Homans
2013-01-03 Apollo's Angels is a major new history of classical ballet. It begins in the courts of Europe, where ballet was an aspect of aristocratic etiquette and a political event as much as it was an art. The story takes the reader from the sixteenth century through to our own time, from Italy and France to Britain, Denmark, Russia and contemporary America. The reader learns how ballet reflected political and cultural upheavals, how dance and dancers were influenced by the Renaissance and French Classicism, by Revolution and Romanticism, by Expressionism and

Bolshevism, Modernism and the Cold War. Homans shows how and why 'the steps' were never just the steps: they were a set of beliefs and a way of life. She takes the reader into the lives of dancers and traces the formal evolution of technique, choreography and performance. Her book ends by looking at the contemporary crisis in ballet now that 'the masters are dead and gone' and offers a passionate plea for the centrality of classical dance in our civilization. Apollo's Angels is a book with broad popular appeal: beautifully written and illustrated, it is essential reading for anyone interested in history, culture and art.