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*Landscapes & Cycles* Springer Science & Business Media

Puts the development of chemical ideas in the context of social and industrial needs. This book uses OCR terminology, and contains a glossary of the key terms from the specification. It is structured in line with the OCR specification with colour content, photographs and illustrations.

*Fundamentals and Applications* CreateSpace

*The Lizards, Crocodiles, and Turtles of Honduras* is the final installment of a series by James R. McCranie documenting the amphibians and reptiles of Honduras. The book is thoroughly illustrated by color photographs and maps, with discussion of conservation status and identification keys in both English and Spanish.

*Protocols for Oligonucleotide Conjugates* Royal Society of Chemistry

This book surveys the past, present, and potential future variability of hurricanes and typhoons on a variety of timescales using newly developed approaches based on geological and archival records, in addition to more traditional approaches based on the analysis of the historical record of tropical cyclone tracks. A unique aspect of the book is that it provides an overview of the developing field of paleotempestology, which uses geological, biological, and documentary evidence to reconstruct prehistoric changes in hurricane landfall. The book also presents a particularly wide sampling of ongoing efforts to extend the best track data sets using historical material from many sources, including Chinese archives, British naval logbooks, Spanish colonial records, and early diaries from South Carolina. The book will be of particular interest to tropical meteorologists, geologists, and climatologists as well as to the catastrophe reinsurance industry, graduate students in meteorology, and public employees active in planning and emergency management.

*Le Breviari d'amor de Matfre Ermengaud, suivi de sa lettre à sa soeur. Intr. et glossaire par G.Azaïs* International Labour Organization

"Landscapes and cycles demonstrates why landscape change, far more than the levels of carbon dioxide, deserve our full attention. Landscapes and cycles is easily understood by the layperson. It outlines how to build a more resilient environment and provides the perspective method needed to critically appraise the overzealous catastrophic predictions that dominate the media. It will enlighten anyone concerned about climate change and the fate of endangered species."--Page 4 of cover.

*The Beacon of the Enlightenment* John Wiley & Sons

High temperature solid oxide fuel cell (SOFC) technology is a promising power generation option that features high electrical efficiency and low emissions of environmentally polluting gases such as CO<sub>2</sub>, NO<sub>x</sub> and SO<sub>x</sub>. It is ideal for distributed stationary power generation applications where both high-efficiency electricity and high-quality heat are in strong demand. For the past few decades, SOFC technology has attracted intense worldwide R&D effort and, along with polymer electrolyte membrane fuel cell (PEMFC) technology, has undergone extensive commercialization development. This book presents a systematic and in-depth narrative of the technology from the perspective of fundamentals, providing comprehensive theoretical analysis and innovative characterization techniques for SOFC technology. The book initially deals with the basics and development of SOFC technology from cell materials to fundamental thermodynamics, electronic properties of solids and charged particle transport. This coverage is extended with a thorough analysis of such operational features as current flow and energy balance, and on to voltage losses and electrical efficiency. Furthermore, the book also covers the important issues of fuel cell stability and durability with chapters on performance characterization, fuel processing, and electrode poisoning. Finally, the book provides a comprehensive review for SOFC materials and fabrication techniques. A series of useful scientific appendices rounds off the book. Solid oxide fuel cell technology is a standard reference for all those researching this important field as well as those working in the power industry. Provides a comprehensive review of solid oxide fuel cells from history and design to chemistry and materials development Presents analysis of operational features including

current flow, energy balance, voltage losses and electrical efficiency Explores fuel cell stability and durability with specific chapters examining performance characterization, fuel processing and electrode poisoning

*Solid Oxide-Based Electrochemical Devices* Vantage Press, Inc Because tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ) plays a pivotal role in the regulation of homeostasis and inflammatory immune responses, it offers valuable research opportunities to develop new drugs for the treatment of a wide range of disorders, including cancer, septic shock, rheumatoid arthritis, and other inflammatory diseases. In *Tumor Necrosis Factor: Methods and Protocols*, well-versed experimentalists survey the basic and translational research being conducted in this field and describe in detail the methods they have developed for TNF production, characterization, mutagenesis, and detection in biological specimens. They also provide several in vitro assays and animal models for studying the role of TNF in various TNF-related diseases and in cancer. The protocols presented follow the successful *Methods in Molecular Medicine*™ series format, each one offering step-by-step laboratory instructions, an introduction outlining the principle behind the technique, lists of equipment and reagents, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and highly practical, *Tumor Necrosis Factor: Methods and Protocols* offers molecular and cellular biologists, pharmacologists, and toxicologists a diverse set of productive, cutting-edge tools for illuminating the pathophysiological roles of TNF in disease and for identifying new drugs.

*Entrepreneurship and Leadership* Springer

A fuel cell is an electrochemical device that converts the chemical energy of a reaction (between fuel and oxidant) directly into electricity. Given their efficiency and low emissions, fuel cells provide an important alternative to power produced from fossil fuels. A major challenge in their use is the need for better materials to make fuel cells cost-effective and more durable. This important book reviews developments in materials to fulfill the potential of fuel cells as a major power source. After introductory chapters on the key issues in fuel cell materials research, the book reviews the major types of fuel cell. These include alkaline fuel cells, polymer electrolyte fuel cells, direct methanol fuel cells, phosphoric acid fuel cells, molten carbonate fuel cells, solid oxide fuel cells and regenerative fuel cells. The book concludes with reviews of novel fuel cell materials, ways of analysing performance and issues affecting recyclability and life cycle assessment. With its distinguished editor and international team of contributors, *Materials for fuel cells* is a valuable reference for all those researching, manufacturing and using fuel cells in such areas as automotive engineering. Examines the key issues in fuel cell materials research Reviews the major types of fuel cells such as direct methanol and regenerative fuel cells Further chapters explore ways of analysing performance and issues affecting recyclability and life cycle assessment

*Fundamentals and Applications* Chemical Storylines. This book draws together the latest findings on the hydrological processes, community organization, and stress physiology of freshwater, tidally influenced land-margin forests of the southeastern United States. It describes the land use history that led to the restricted distribution of these wetlands, and provides descriptions of the hydrology, soils, biogeochemistry, and physiological ecology of these systems, highlighting the similarities shared among tidal freshwater forested wetlands.

*Food Irradiation Technologies* Royal Society of Chemistry

You will easily synthesize and analyze oligonucleotide conjugates by following the step-by-step protocols presented in this volume. These techniques are widely used by all molecular biologists and antisense researchers and find special application by pharmacologists working in new drug development and quality assurance assay.

Property Price Index Elsevier

It has been traditional in phonetic research to characterize monophthongs using a set of static formant frequencies, i.e., formant frequencies taken from a single time-point in the vowel or averaged over the time-course of the vowel. However, over the last twenty years a growing body of research has demonstrated that, at least for a number of dialects of North American English, vowels which are traditionally described as monophthongs often have substantial spectral change. Vowel inherent spectral change has been observed in speakers' productions, and has also been found to have a substantial effect on listeners' perception. In terms of acoustics, the traditional categorical distinction between monophthongs and diphthongs can be replaced by a gradient description of dynamic spectral patterns. This book includes chapters addressing various aspects of vowel inherent spectral change (VISC), including theoretical and experimental studies of the perceptually relevant aspects of VISC, the relationship between articulation (vocal-tract trajectories) and VISC, historical changes related VISC, cross-dialect, cross-language, and cross-age-group comparisons of VISC, the effects of VISC on second-language speech learning, and the use of VISC in forensic voice comparison.

*Designing the Internet of Things* John Wiley & Sons

For the first time, this comprehensive handbook presents the

emerging field of microwave technology for the synthesis of nanoparticles. Divided into three parts--fundamentals, methods, and applications--it covers topics including microwave theory, scale-up, microwave plasma synthesis, characterization, and more. This offers both an important volume for academic researchers, and a resource for those in industry exploring the applications of nanoparticles in semiconductors, electronics, catalysis, sensors, and more.

*Study Guide to Dealing with Difficult Parents* Springer Science & Business Media

Handbook to accompany the students' anthology of prose and verse extracts with questions, glossaries and end vocabulary to provide motivation and well-supported resource for the Prose and Literature OCR examinations.

Volume 47 Springer

Lanthanides are of great importance for the electronic industries, this new book (from the EIBC Book Series) provides a comprehensive coverage of the basic chemistry, particularly inorganic chemistry, of the lanthanoid elements, those having a 4f shell of electrons. A chapter is describing the similarity of the Group 3 elements, Sc, Y, La, the group from which the lanthanoids originate and the group 13 elements, particularly aluminum, having similar properties. Inclusion of the group 3 and 13 elements demonstrates how the lanthanoid elements relate to other, more common, elements in the Periodic Table. Beginning chapters describe the occurrence and mineralogy of the elements, with a focus on structural features observed in compounds described in later chapters. The majority of the chapters is organized by the oxidation state of the elements, Ln(0), Ln(II), Ln(III), and Ln(IV). Within this organization the chapters are further distinguished by type of compound, inorganic (oxides and hydroxides, aqueous speciation, halides, alkoxides, amides and thiolates, and chelates) and organometallic. Concluding chapters deal with diverse and critically important applications of the lanthanoids in electronic and magnetic materials, and medical imaging.

*ICC Performance Code for Buildings and Facilities, 2015* Columbia University Press

This volume focuses on the investigatory methods applied to autosomal dominant polycystic kidney disease (ADPKD), one of the most common human genetic diseases. ADPKD is caused by mutations in PKD1 and TRPP2, two integral membrane proteins that function as receptor/ion channels in primary cilia of tubular epithelial cells. Thus, ADPKD belongs to ciliopathies, a group of disorders caused by abnormal cilia formation or function. This proposed book will cover the state-of-the-art methods ranging from molecular biology, biochemistry, electrophysiology, to tools in model animal studies. Key Features Explores the role of cilia in polycystic kidney disease Focuses on myriad state-of-the-art methods and techniques Reviews specific mutations integral to this autosomal genetic disease Includes discussions of model systems

*The Lizards, Crocodiles, and Turtles of Honduras* BRILL

Diana Lange has solved the mysteries of six panoramic maps of 19th c. Tibet and the Himalayas, known as the British Library's Wise Collection. The result is both a spectacular illustrated ethnographic atlas and a unique compendium of knowledge concerning the mid-19th century Tibetan world, as well as a remarkable account of an academic journey of discovery. This large format book is lavishly illustrated in colour and includes four separate large foldout maps.

*Theory and Practice* OUP Oxford

Inspired by Voltaire's advice that a text needs to be concise to have real influence, this anthology contains fiery extracts by forty eighteenth-century authors, from the most famous philosophers of the age to those whose brilliant writings are less well-known. These passages are immensely diverse in style and topic, but all have in common a passionate commitment to equality, freedom, and tolerance. Each text resonates powerfully with the issues our world faces today. *Tolerance* was first published by the Société française d'étude du dix-huitième siècle (the French Society for Eighteenth-Century Studies) in the wake of the Charlie Hebdo assassinations in January 2015 as an act of solidarity and as a response to the surge of interest in Enlightenment values. With the support of the British Society for Eighteenth-Century Studies, it has now been translated by over 100 students and tutors of French at Oxford University.

*Prebiotic Chemistry* Penguin

*Solid Oxide-Based Electrochemical Devices: Advances, Smart Materials and Future Energy Applications* provides a complete overview of the theoretical and applied aspects of energy-related solid oxide technologies. The book presents detailed thermodynamic and other basic requirements for fuel cells, electrolyzers, supercapacitors, batteries, sensors and air treatment devices. It delves into physical-chemical,

electrochemical and mechanical properties of smart materials developed and offers insights into fundamental analysis and modeling. Detailed protocols for operation are suggested and discussed, including component development to optimize functionality, cost and upscaling. Practitioners in the fuel cell or power to gas industries, engineering researchers developing new technologies in those areas, and device and system designers can use the in-depth, structured information about the relationship between technologies and materials offered to make better-informed decisions during the planning and implementation of those technologies. Covers the theoretical concepts, components, advances and applications of solid oxide fuel cell, electrolyzer, battery, sensor and pollution abatement technologies Explores applications of new smart and metamaterials in the construction of energy-related solid oxide devices Presents examples of prototypes, including their cost estimate and requirements for large-scale production, integration and operation

**Solid Oxide Fuel Cell Technology** Open Book Publishers  
Addresses materials, technology, and products that could help solve the global environmental crisis once commercialized This multidisciplinary book encompasses state-of-the-art research on the topics of Carbon Capture and Storage (CCS), and complements existing CCS technique publications with the newest research and reviews. It discusses key challenges involved in the CCS materials design, processing, and modeling and provides in-depth coverage of solvent-based carbon capture, sorbent-based carbon capture, membrane-based carbon capture, novel carbon capture methods, computational modeling, carbon capture materials including metal organic frameworks (MOF), electrochemical capture and conversion, membranes and solvents, and geological sequestration. **Materials and Processes for CO<sub>2</sub> Capture, Conversion and Sequestration** offers chapters on: Carbon Capture in Metal-Organic Frameworks; Metal Organic Frameworks Materials for Post-Combustion CO<sub>2</sub> Capture; New Progress of Microporous Metal-Organic Frameworks in CO<sub>2</sub> Capture and Separation; In Situ Diffraction Studies of Selected Metal-Organic Framework (MOF) Materials for Guest Capture Applications; Electrochemical CO<sub>2</sub> Capture and Conversion; Electrochemical Valorization of Carbon Dioxide in Molten Salts; Microstructural and Structural Characterization of Materials for CO<sub>2</sub> Storage using Multi-Scale X-Ray Scattering Methods; Contribution of Density Functional Theory to Microporous Materials for Carbon Capture; and Computational Modeling Study of MnO<sub>2</sub> Octahedral Molecular Sieves for Carbon Dioxide Capture Applications. Addresses one of the most pressing concerns of society—that of environmental damage caused by the greenhouse gases emitted as we use fossil fuels Covers cutting-edge capture technology with a focus on materials and technology rather than regulation and cost Highlights the common and novel CCS materials that are of greatest interest to industrial researchers Provides insight into CCS materials design, processing characterization, and computer modeling **Materials and Processes for CO<sub>2</sub> Capture, Conversion and Sequestration** is ideal for materials scientists and engineers, energy scientists and engineers, inorganic chemists, environmental scientists, pollution control scientists, and carbon chemists.

**Methods in Molecular Biology** Springer Science & Business Media  
2020 James Beard Award Winner The major new cookbook by the pioneer from Bread Alone, who revolutionized American artisan bread baking, with 60 recipes inspired by bakers around the world. At twenty-two, Daniel Leader stumbled across the intoxicating perfume of bread baking in the back room of a Parisian boulangerie, and he has loved and devoted himself to making quality bread ever since. He went on to create Bread Alone, the now-iconic bakery that has become one of the most beloved artisan bread companies in the country. Today, professional bakers and bread enthusiasts from all over the world flock to Bread Alone's headquarters in the Catskills to learn Dan's signature techniques and baking philosophy. But though Leader is a towering figure in bread baking, he still considers himself a student of the craft, and his curiosity is boundless. In this groundbreaking book, he offers a comprehensive picture of bread baking today for the enthusiastic home baker. With inspiration from a community of millers, farmers, bakers, and scientists, **Living Bread** provides a fascinating look into the way artisan bread baking has evolved and continues to change—from wheat farming practices and advances in milling, to sourdough starters and the mechanics of mixing dough. Influenced by art and science in equal measure, Leader presents exciting twists on classics such as Curry Tomato Ciabatta, Vegan Brioche, and Chocolate Sourdough Babka, as well as traditional recipes. Sprinkled with anecdotes and evocative photos from Leader's own travels and encounters with artisans who have influenced him, **Living Bread** is a love letter, and a cutting-edge guide, to the practice of making "good bread."

**The Kappa Opioid Receptor** Walter de Gruyter

Vitamins - especially B- and D-vitamins - influence the development and outcome of many neurodegenerative and other diseases. Among others, dementia, neural tube defects, epilepsy, and osteoporoses can be caused by vitamin deficiency. This book provides up-to-date knowledge on the role of water and fat soluble vitamins in the prevention of human diseases. Having knowledge about the association of vitamins and disease, as well as keeping track on the patients vitamin status has become increasingly important to every physician and clinical chemist.