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Improving Potassium Recommendations for Agricultural Crops - T. Scott Murrell 2020-12-14

This open access book highlights concepts discussed at two international conferences that brought together world-renowned scientists to advance the science of potassium (K) recommendations for crops. There was general agreement that the potassium recommendations currently in general use are oversimplified, outdated, and jeopardize soil, plant, and human health. Accordingly, this book puts forward a significantly expanded K cycle that more accurately depicts K inputs, losses and transformations in soils. This new cycle serves as both the conceptual basis for the scientific discussions in this book and a framework upon which to build future improvements. Previously used approaches are critically reviewed and assessed, not only for their relevance to future enhancements, but also for their use as metrics of sustainability. An initial effort is made to link K nutrition in crops and K nutrition in humans. The book offers an invaluable asset for graduate students, educators, industry scientists, data scientists, and advanced agronomists.

Readers' Guide to Periodical Literature

American Book Publishing Record - 1982-04

Catalog of Copyright Entries - Library of Congress. Copyright Office 1957

Encyclopedia of Aquarium & Pond Fish - David Alderton 2008-06-02

A lavishly illustrated reference covering all aspects of keeping fish, the Encyclopedia of Aquarium & Pond Fish is the first book on the market to provide care and identification information on all types of fish for every possible environment, from indoor aquariums to outdoor ponds. The book contains a directory of over 800 of the most popular fish—freshwater, saltwater, coldwater, and tropical—showing not only what each fish looks like, but what food they eat, which species they can cohabit with, how big they grow, and much more.

Zephaniah - Marvin Alan Sweeney 2003

The Book of Zephaniah poses a full range of interpretive and hermeneutical issues for the modern reader. Sweeney's keen reading of this small, prophetic book opens new doors for Hebrew Bible research. He situates the reading of Zephaniah in the early sixth century b.c.e. rather than the late seventh century b.c.e. Sweeney's interpretation pays close attention to the often subtle differences between the Masoretic Text, Septuagint, Dead Sea Scrolls, Peshitta, and targums. His methodology includes form criticism, tradition history, and social history. Key Features: Critical and historical commentary on this prophetic book of the Hebrew Bible Strong text-critical analysis Locates book in Israel's history and Ancient Near Eastern context

SpaceX's Dragon: America's Next Generation Spacecraft - Erik Seedhouse 2015-11-04

Dragon V2 is a futuristic vehicle that not only provides a means for NASA to transport its astronauts to the orbiting outpost but also advances SpaceX's core objective of reusability. A direct descendant of Dragon, Dragon V2 can be retrieved, refurbished and re-launched. It is a spacecraft with the potential to completely revolutionize the economics of an industry where equipment costing hundreds of millions of dollars is routinely discarded after a single use. It was presented by SpaceX CEO Elon Musk in May 2014 as the spaceship that will carry NASA astronauts to the International Space Station as soon as 2016. SpaceX's Dragon - America's Next Generation Spacecraft describes the extraordinary feats of engineering and human achievement that have placed this revolutionary spacecraft at the forefront of the launch industry and positioned it as the precursor for ultimately transporting humans to Mars. It describes the design and development of Dragon, provides mission highlights of the first six Commercial Resupply Missions, and explains how Musk hopes to eventually colonize Mars.

Cosmic Botany - Tanya Lichtenstein 2020-04-14

A delightful illustrated guide to pairing plants and crystals to maximize their healing and energizing benefits. Greening your home is a powerful way to bring well-being and a sense of peace into any space, and adding crystals to the mix amplifies their vibrational energy and elevates those benefits to the next level. Whether you are looking for love, calm, prosperity, or merely inspiration to declutter your house and mind, Tanya Lichtenstein demonstrates how pairing plant and crystal soul mates will help both you and them align with the flow of the universe. Plants and crystals are a timeless love story. Become an alchemical matchmaker and learn how syncing these natural allies can help your houseplants thrive, cleanse and ignite the powers of crystals, and make your home an oasis. Their potent synergy will allow you to reconnect with your intentions and reflect on the present moment. Discover how to effectively use more than 40 plant and crystal combinations, from jade pothos and pyrite for abundance, to string-of-pearls plant and amazonite for a worry detox, to aloe vera and apophyllite for self-care.

Catalog of Copyright Entries. Third Series - Library of Congress. Copyright Office 1956

Pigment Compendium - Nicholas Eastaugh 2008-09-10

This is an essential purchase for all painting conservators and conservation scientists dealing with paintings and painted objects. It provides the first definitive manual dedicated to optical microscopy of historical pigments. Illustrated throughout with full colour images reproduced to the highest possible quality, this book is based on years of painstaking research into the visual and optical properties of pigments. Now combined with the Pigment Dictionary, the most thorough reference to pigment names and synonyms available, the Pigment Compendium is a major addition to the study and understanding of historic pigments. *Predicting Chemical Toxicity and Fate* - Mark T.D. Cronin 2004-05-10 Quantitative Structure-Activity Relationships (QSARs) are increasingly used to predict the harmful effects of chemicals to humans and the environment. The increased use of these methods in a variety of areas (academic, industrial, regulatory) results from a realization that very little toxicological or fate data is available on the vast amount of chemicals to which humans and the environment are exposed. Predicting Chemical Toxicity and Fate provides a comprehensive explanation of the state-of-the-art methods that are available to predict the effects of chemicals on humans and the environment. It describes the use of predictive methods to estimate the physicochemical properties, biological activities, and fate of chemicals. The methods described may be used to predict the properties of drugs before their development, and to predict the environmental effects of chemicals. These methods also reduce the cost of product development and the need for animal testing. This book fills an obvious need by providing a comprehensive explanation of these prediction methods. It is a practical book that illustrates the use of these techniques in real life scenarios. This book will demystify QSARs for those students unsure of them, and professionals in environmental toxicology and chemistry will find this a useful reference in their everyday working lives.

Nuclear Fuel Reprocessing and Waste Management - Zhang Jinsuo 2018-08-07

The question of how to effectively, efficiently, and responsibly manage used nuclear fuels is a concern of major impediment in the light of today's increasing usage of nuclear power and development of advanced nuclear reactors. This book focuses on two significant areas of (used) nuclear fuel: the reprocessing technology, and waste disposal and management. The book covers the fundamental knowledge, the current state-of-the-art, and future research activities for each topic. This book provides readers with the fundamental knowledge behind of nuclear used fuel reprocessing and radioactive waste management, and their technical applications, and their requirements and practices; to make the readers

aware of social, economic, and environmental concerns as well as technical research needs. The book covers two well-known and well-developed reprocessing technologies: aqueous reprocessing technology, and electrochemical pyroprocessing. On the subject of waste management, it covers the dry storage of used nuclear fuel, novel waste form design, and nuclear waste disposal. This book is a good guide for readers who want to understand, apply, or develop the technologies.

Dictionary of International Biography - 2000

A biographical record of contemporary achievement together with a key to the location of the original biographical notes.

Energy, Mineral, and Ground-water Resources of Carbon and Emery Counties, Utah - R. W. Gloyn 2003

This report provides information for use in both short- and long term land-planning decisions, particularly at the county level, and an indication of the present and future economic impact of mineral and energy development. The report discusses eight major commodity groups: (1) oil and gas, (2) coal and coal resin, (3) coal-bed methane, (4) other energy resources (oil-impregnated rock, oil shale, geothermal), (5) uranium and vanadium, (6) metallic minerals, (7) industrial rocks and minerals, and (8) ground-water resources. In general, for each group or commodity within a group the following aspects are discussed: (1) known occurrences and characteristics, (2) past production and trends, (3) current production and exploration activity, and (4) geologic potential. Plates accompany each of the major commodity groups and show the locations of known resources and areas of geologic potential. In addition to the commodity discussions, the report contains a brief summary of land ownership status and concludes with a summary of commodities having the best potential for discovery and development. 161 pages + 14 plates

ACS Style Guide - Anne M. Coghil 2006

In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

Sustainable Agricultural Development - Mohamed Behnassi 2011-02-09

Due to many challenges (i.e. climate change, energy, water and land shortage, high demands on food, land grabbing, etc.), agriculture production potential is expected to be seriously affected; thus, increasing food insecurity and hunger in many already affected regions (especially in Africa). In this context, sustainable agriculture is highly recommended as an eco-system approach where soil, water, plants, environment and living organisms live in harmony. Innovative technologies and research should be developed to ensure sustainable agriculture and productivity using modern irrigation systems, improved varieties, improved soil quality, etc. In the meantime, the preservation of natural environment should be based on resource conservation technologies and best management practices. Sustainable Agricultural Development, not only raises the serious ethical and social issues underlying these huge environmental problems, but also aims at presenting successful experiences from all over the world in relation with sustainable farming, sustainable management of water and land resources, and innovative processes in livestock production. It also aims at providing inputs to decision making processes and encouraging the transfer of relevant know-how, technologies and expertise to different countries where similar agro-climatic conditions may exist; thus saving precious resources and promoting sustainable agricultural development as a

relevant approach to tackle the food security challenge. Finally, this book focuses on the paradigmatic and policy dimensions and call for an innovative approach by analyzing the key themes in a complex and interrelated manner.

Fundamentals of Magnetic Thermonuclear Reactor Design - Vasilij A. Glukhikh 2018-05-21

Fundamentals of Magnetic Thermonuclear Reactor Design is a comprehensive resource on fusion technology and energy systems written by renowned scientists and engineers from the Russian nuclear industry. It brings together a wealth of invaluable experience and knowledge on controlled thermonuclear fusion (CTF) facilities with magnetic plasma confinement - from the first semi-commercial tokamak T-3, to the multi-billion international experimental thermonuclear reactor ITER, now in construction in France. As the INTOR and ITER projects have made an immense contribution in the past few decades, this book focuses on its practical engineering aspects and the basics of technical physics and electrical engineering. Users will gain an understanding of the key ratios between plasma and technical parameters, design streamlining algorithms and engineering solutions. Written by a team of qualified experts who have been involved in the design of thermonuclear reactors for over 50 years Outlines the most important features of the ITER project in France which is building the largest tokamak, including the design, material selection, safety and economic considerations Includes data on how to design magnetic fusion reactors using CAD tools, along with relevant regulatory documents

Preharvest Food Safety Siddhartha Thakur 2020-07-10

An overview of farm-to-fork safety in the preharvest realm Foodborne outbreaks continue to take lives and harm economies, making controlling the entry of pathogens into the food supply a priority. Preharvest factors have been the cause of numerous outbreaks, including Listeria in melons, Salmonella associated with tomatoes, and Shiga toxin-producing E.coli in beef products, yet most traditional control measures and regulations occur at the postharvest stage. Preharvest Food Safety covers a broad swath of knowledge surrounding topics of safety at the preharvest and harvest stages, focusing on problems for specific food sources and food pathogens, as well as new tools and potential solutions. Led by editors Siddhartha Thakur and Kalmia Kniel, a team of expert authors provides insights into critical themes surrounding preharvest food safety, including Challenges specific to meat, seafood, dairy, egg, produce, grain, and nut production Established and emerging foodborne and agriculture-related pathogens Influences of external factors such as climate change and the growing local-foods trend Regulatory issues from both US and EU perspectives Use of pre- and probiotics, molecular tools, mathematical modeling, and one health approaches Intended to encourage the scientific community and food industry stakeholders to advance their knowledge of the developments and challenges associated with preharvest food safety, this book addresses the current state of the field and provides a diverse array of chapters focused on a variety of food commodities and microbiological hazards.

Essential Oils in Food Preservation, Flavor and Safety - Victor R. Preedy 2015-09-28

Essential Oils in Food Preservation, Flavor and Safety discusses the major advances in the understanding of the Essential Oils and their application, providing a resource that takes into account the fact that there is little attention paid to the scientific basis or toxicity of these oils. This book provides an authoritative synopsis of many of the complex features of the essential oils as applied to food science, ranging from production and harvesting, to the anti-spoilage properties of individual components. It embraces a holistic approach to the topic, and is divided into two distinct parts, the general aspects and named essential oils. With more than 100 chapters in parts two and three, users will find valuable sections on botanical aspects, usage and applications, and a section on applications in food science that emphasizes the fact that essential oils are frequently used to impart flavor and aroma. However, more recently, their use as anti-spoilage agents has been extensively researched. Explains how essential oils can be used to improve safety, flavor, and function Embraces a holistic approach to the topic, and is divided into two distinct parts, the general aspects and named essential oils Provides exceptional range of information, from general use insights to specific use and application information, along with geographically specific information Examines traditional and evidence-based uses Includes methods and examples of investigation and application

Nano: The Spectacular Science of the Very (Very) Small - Jess Wade 2022-03

This exciting non-fiction picture book introduces young readers to the

fascinating (and cutting-edge) science of the very, very small. Everything is made from something but the way we make things, from the materials we use to the science and technology involved, is changing fast. Nano offers a fascinating narrative introduction to this cutting-edge area of STEM, better known by the name "nanotechnology".

Space Physiology and Medicine - Arnauld E. Nicogossian 1982
2009 life science book award from IAA.

Encyclopedia of Caves and Karst Science - John Gunn 2004-08-02
The Encyclopedia of Caves and Karst Science contains 350 alphabetically arranged entries. The topics include cave and karst geoscience, cave archaeology and human use of caves, art in caves, hydrology and groundwater, cave and karst history, and conservation and management. The Encyclopedia is extensively illustrated with photographs, maps, diagrams, and tables, and has thematic content lists and a comprehensive index to facilitate searching and browsing.
Catalog of Copyright Entries. Third Series - Library of Congress. Copyright Office 1957

Includes Part 1, Number 1 & 2: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - December)

Industrial Minerals and Rocks - American Institute of Mining, Metallurgical, and Petroleum Engineers 1960

Fruit and Vegetables Anthony Keith Thompson 2008-04-15
The second edition of this very well-received book, which in its first edition was entitled Postharvest Technology of Fruits and Vegetables, has been welcomed by the community of postharvest physiologists and technologists who found the first edition of such great use. The book covers, in comprehensive detail, postharvest physiology as it applies to postharvest quality, technology relating to maturity determination, harvesting, packaging, postharvest treatments, controlled atmosphere storage, ripening and transportation on a very wide international range of fruits and vegetables. The new edition of this definitive work, which contains many full colour photographs, provides key practical and commercially-oriented information of great use in helping to ensure that fruit and vegetables reach the retailer in optimum condition, with the minimum of loss and spoilage. Fruits and vegetables, 2nd edition is essential reading for fruit and vegetable technologists, food scientists and food technologists, agricultural scientists, commercial growers, shippers and warehousing operatives and personnel within packaging companies. Researchers and upper level students in food science, food technology, plant and agricultural sciences will find a great deal of use within this landmark book. All libraries in research establishments and universities where these subjects are studied and taught should have copies readily available for users. A. K. Thompson was formerly Professor and head of Postharvest Technology, Silsoe College, UK.

Cu-RE Your Fatigue: The Root Cause and How To Fix It On Your Own - Morley Robbins 2021-11-01

The leading cause of death on Planet Earth is Metabolic Syndrome. Some 40% of all Earthlings now suffer from this condition which covers the gamut of Heart Disease, Cancer, Neurodegeneration, Liver disease, and PCOS. What is worth knowing is that ALL of these and related conditions start with Fatigue, known in scientific circles as "energy deficiency." 40% of the Earth's population has a formal clinical diagnosis that their mitochondria cannot make adequate levels of energy. [Cu]re Fatigue is a book devoted to educating the masses and their doctors exactly how and why this is happening. Our mitochondria make energy by a series of enzymes to work synergistically to create ATP, the cellular currency of energy. These mitochondrial enzyme reactions rely on minerals that are easily lost to stress. This book explains these concepts, how these challenges can be overcome and introduces the reader to a simple, proven Root Cause Protocol that is designed to generate more energy and end fatigue. This book is designed for those seeking the truth in human metabolism and those wanting to take back control of their health. It is one part textbook and one part user's guide based on a decade of research and client experience.

Business Periodicals Index - 1992

Books and Pamphlets, Including Serials and Contributions to Periodicals - Library of Congress. Copyright Office 1956-07

Zephaniah - Adele Berlin 1994

In a world plagued by political corruption and human oppression, the great prophet Zephaniah makes an urgent plea for reform and return to faith. Biblical scholar Adele Berlin's brilliant commentary celebrates

Zephaniah's rich imagery and probes the historical importance of his profound proclamations.

The New York Times Index - 2000

The Geography of Georgia - Igor V. Bondyrev 2015-05-18

This book discusses the political and economic history and geography of Georgia, the problems it has faced, and how it has overcome and is still overcoming them. In most countries, at the end of the 20th century the successful resolution of social-economic, political, demographic and ecological problems was largely dependent on effectively protecting the population and economic assets from natural disasters and on ensuring conditions for their sustainable development. These problems are most acute in mountainous regions like Georgia, where the unplanned development of natural ecosystems has had drastic consequences. It is therefore necessary to understand not only the probability of changing conditions (natural as well as political and demographic), but also the probability of the resulting economic losses. The book is divided into four sections; historical and political geography, geological processes, ecological processes and developmental geography. In the historical and political geography section the authors present a detailed discussion on ancient history, historical and political geography, ethnic groups and religions, demographics and socio-cultural geography. The geological processes section contains information on geology, geodynamical processes, glacial and periglacial processes. The ecological processes section examines a variety of landscapes and ecosystems, aspects of deforestation, reforestation and desertification along with anthropogenic impacts on the environment. The developmental geography section looks at different economies, natural resources, sustainable development and climate change.

Luminescence Thermometry - Miroslav Dramićanin 2018-04-21

Luminescence Thermometry: Methods, Materials, and Applications presents the state-of-the-art applications of luminescence thermometry, giving a detailed explanation of luminescence spectroscopic schemes for the read-out of temperature, while also describing the diverse materials that are capable of sensing temperature via luminescence. Chapters cover the fundamentals of temperature, traditional thermometers and their figures of merit, a concise description of optical thermometry methods, luminescence and instrumentation, and an explanation of the ways in which increases in temperature quench luminescence. Additional sections focus on materials utilized for luminescence thermometry and the broad range of applications for luminescence thermometry, including temperature measurement at the nanoscale and the application of multifunctional luminescent materials. Provides an overview of luminescence thermometry applications, including high-temperature, biomedical, nanoscale and multifunctional. Delves into luminescence thermometry by materials group, including Rare-earth and transition Metal Ion Doped, Semiconductors, Quantum Dots and Organic materials. Gives a concise introduction of the latest methods of temperature measurement, including luminescence spectroscopic schemes and methods of analysis.

Old Testament Survey - B. Ponsett 1994-07

Presents the characters, plot, theme, symbols, prose, and poetry of each Old Testament book, following the Hebrew canonical order.

Urban Storm Drainage Criteria Manual - Urban Drainage and Flood Control District 2010-11-01

The New Geology - George McCready Price 1923

The Unbroken Thread - Kathryn Klein 1997-01-01

Housed in the former 16th-century convent of Santo Domingo church, now the Regional Museum of Oaxaca, Mexico, is an important collection of textiles representing the area's indigenous cultures. The collection includes a wealth of exquisitely made traditional weavings, many that are now considered rare. The Unbroken Thread: Conserving the Textile Traditions of Oaxaca details a joint project of the Getty Conservation Institute and the National Institute of Anthropology and History (INAH) of Mexico to conserve the collection and to document current use of textile traditions in daily life and ceremony. The book contains 145 color photographs of the valuable textiles in the collection, as well as images of local weavers and project participants at work. Subjects include anthropological research, ancient and present-day weaving techniques, analyses of natural dyestuffs, and discussions of the ethical and practical considerations involved in working in Latin America to conserve the materials and practices of living cultures.

Energetic Materials - Manoj K. Shukla 2017-10-09

This book offers a comprehensive account of energetic materials, including their synthesis, computational modeling, applications, associated degradation mechanisms, environmental consequences and fate and transport. This multi-author contributed volume describes how armed forces around the world are moving their attention from legacy explosive compounds, which are heat and shock sensitive (thus posing greater challenges in terms of handling and storage), to the insensitive munitions compounds/formulations such as insensitive munitions explosive (IMX) and the Picatinny Arsenal Explosive (PAX) series of compounds. The description of energetic materials focuses on explosives, pyrotechnic compositions, and propellants. The contributors go on to explain how modern generation energetic compounds must be insensitive to shock and heat but at the same time yield more energy upon explosion. Nanoinspired and/or co-crystallized energetic materials offer another route to generate next-generation energetic materials, and this authoritative book bridges a large gap in the literature by providing a comprehensive analysis of these compounds. Additionally, it includes a valuable overview of energetic materials, a detailed discussion of recent advances on future energetic compounds, nanotechnology in energetic materials, environmental contamination and toxicity, assessment of munitions lethality, the application quantitative structure-activity relationship (QSAR) in design of energetics and the fate and transport of munition compounds in the environment.

Applications of Nanotechnology for Green Synthesis - Inamuddin
2020-07-02

Traditional methods in synthetic chemistry produce chemical waste and byproducts, yield smaller desired products, and generate toxic chemical substances, but the past two centuries have seen consistent, greener improvements in organic synthesis and transformations. These improvements have contributed to substance handling efficiency by using green-engineered forerunners like sustainable techniques, green processes, eco-friendly catalysis, and have minimized energy consumption, reduced potential waste, improved desired product yields, and avoided toxic organic precursors or solvents in organic synthesis. Green synthesis has the potential to have a major ecological and monetary impact on modern pharmaceutical R&D and organic chemistry fields. This book presents a broad scope of green techniques for medicinal, analytical, environmental, and organic chemistry applications. It presents an accessible overview of new innovations in the field, dissecting the highlights and green chemistry attributes of approaches to green synthesis, and provides cases to exhibit applications to

pharmaceutical and organic chemistry. Although daily chemical processes are a major part of the sustainable development of pharmaceuticals and industrial products, the resulting environmental pollution of these processes is of worldwide concern. This edition discusses green chemistry techniques and sustainable processes involved in synthetic organic chemistry, natural products, drug syntheses, as well various useful industrial applications.

Cold Plasma in Food and Agriculture - NN Misra 2016-07-15

Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry. Written for researchers, industry personnel, and students interested in nonthermal food technology, this reference will lay the groundwork of plasma physics, chemistry, and technology, and their biological applications. Food scientists and food engineers interested in understanding the theory and application of nonthermal plasma for food will find this book valuable because it provides a roadmap for future developments in this emerging field. This reference is also useful for biologists, chemists, and physicists who wish to understand the fundamentals of plasma physics, chemistry, and technology and their biological interactions through applying novel plasma sources to food and other sensitive biomaterials. Examines the topic of cold plasma technology for food applications Demonstrates state-of-the-art developments in plasma technology and potential solutions to improve food safety and quality Presents a solid introduction for readers on the topics of plasma physics and chemistry that are required to understand biological applications for foods Serves as a roadmap for future developments for food scientists, food engineers, and biologists, chemists, and physicists working in this emerging field

Antarctic Paleobiology - Thomas N. Taylor 2012-12-06

Antarctic Paleobiology discusses the current status of paleobiology, principally paleobotany and palynology in Antarctica, and the interrelationship of Antarctic floras to those of other Gondwana continents. It provides a broad coverage of the major groups of plants on the one hand, while on the other seeking to evaluate the vegetational history and the physical and biological parameters that influence the distribution of floras through time and space. The biologic activity is discussed within a framework of the geologic history, including the tectonic and paleogeographic history of the region. Finally, the reader will find a comprehensive bibliography of Gondwana paleobotany and palynology.