Mettler Toledo T50 User Manual

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International Society for Microbial Electrochemistry and Technology: Outputs From the 2018 Regional Meetings John Wiley & Sons

“ Darlison elucidates the zodiac ’ s significant place in the Gospels, most specifically in the Book of Mark . . . An intriguing leap into faith ” (Kirkus Reviews). For millennia the world has been driven by the differences between the great patriarchal religions. Western civilization—or Christendom, as it was once called—received its values and its confidence from a belief in God, the Father, and Jesus, his only son. But what if this conviction were founded on an error? Who is the man in the factually inconsistent Gospel stories? And who is the man who makes a brief appearance carrying a jar of water? This extraordinary study by a Unitarian minister suggests that Jesus never existed historically; he was simply a representation of an astrological theology—a representation, simply put, of the zodiac sign of Aquarius. In The Gospel & the Zodiac, Rev. Bill Darlison demonstrates that all the other signs are present too, in perfect zodiacal order. The Gospel story is not the product of historians or eyewitnesses, but an older, mystical text produced by an ancient, esoteric school as a guide to the Age of Pisces. Every bit as revelatory and controversial as it sounds, The Gospel & the Zodiac will shake up the religious status quo, and in doing so, provide both a new look at a religious icon and a deeper understanding of the faith that binds millions together. “ Darlison begins by looking at different scholarly approaches to the gospels, then outlines his astrological interpretation logically and lucidly, matching the zodiacal signs to the narrative of Mark. ” —Fortean Times

39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: no. 4799 Springer Science & Business Media

Microbes in the Spotlight: Recent Progress in the Understanding of Beneficial and Harmful Microorganisms contains a selection of papers presented at the VI International Conference on Environmental, Industrial and Applied Microbiology - BioMicroWorld2015 (Barcelona, Spain). This book offers the outcomes of completed and outgoing research works and experiences of several microbiology research groups across the world. The volume is divided into the following sections: --Agricultural and environmental microbiology. Biodeterioration, biodegratation, bioremediation --Food microbiology --Medical microbiology. Antimicrobial agents and chemotherapy. Antimicrobial resistance --Industrial microbiology. Microbial production of high-value products --Biotechnologically relevant enzymes and proteins --Methods and technology development --Microbial physiology Readers will find this book a useful opportunity to keep up with the latest research results, insights and advances in the microbiology field.

Stress-Induced Gene Expression in Plants Springer

Acid-base homeostasis is essential for human health and a variety of physiological conditions. Pathophysiological changes can result in acid-base derangements, which can be accompanied by acute and long-term metabolic disorders. Moreover, even a narrow change of blood pH still within the physiological change, e.g., a diet-induced shift towards a more acidic status, has been reported to already cause adverse health consequences. Against this background, we aimed to, by using non-invasive urinary biomarkers, examine acid-base-related physiological and epidemiological relationships of body fatness with 24-h urine pH, the potential mediatory roles of inflammatory biomarkers in the high body fat–low urine pH relation, and the association between 24-h urinary glucocorticoid excretion and renal citrate output, as well as the prospective relationships of protein intake and dietary acid load during childhood and adolescence with adult height. All study participants were selected and data came from the DOrtmund Nutritional and Antropometric Longitudinally Designed (DONALD) Study, which includes regular examinations on dietary intake, metabolism, and growth in healthy children and adolescents until their adulthood without particular pre-specified endpoints.

Cleaner Combustion and Sustainable World John Wiley & Sons

Biomass is a key resource for meeting the energy and material demands of mankind in the future. As a result, businesses and technologies are developing around biomass processing and its applications. Transformation of Biomass: Theory to Practice explores the modern applications of biomass and bio-based residues for the generation of energy, heat and chemical products. The first chapter presents readers with a broad overview of biomass and its composition, conversion routes and products. The following chapters deal with specific technologies, including anaerobic digestion, pyrolysis and gasification, as well as hydrothermal and supercritical conversion. Each chapter details current practises, recent developments, business case models and comprehensive analysis of the problems associated with each approach, and how to optimize them. Topics covered include: Anaerobic digestion Reactor design Pyrolysis Catalysis in biomass transformation Engines for combined heat and power Influence of feedstocks on performance and products Bio-hydrogen from biomass Analysis of bio-oils Numerical simulation and formal kinetic parameters evaluation Business case development This textbook will provide students, researchers and industry professionals with a practical and accessible guide to the essential skills required to advance in the field of bioenergy.

Biomarkers of acid-base status and their interrelationships with body fatness, glucocorticoids, and height Frontiers Media SA

This practical manual is devised for organic chemists and biochemists who, in the course of their researches and without previous experience, need to determine an ionization constant. We are gratified that earlier editions were much used for this purpose and that they also proved adequate for the in service training of technicians and technical officers to provide a Department with a pK service. The features of previous editions that gave this wide appeal have been retained, but the subject matter has been revised, extended, and brought up to date. We present two new chapters, one of which describes the determination of the stability constants of the complexes which organic ligands form with metal cations. The other describes the use of more recently introduced techniques for the determination of ionization constants, such as Raman and nuclear magnetic resonance spectroscopy, thermometric titrations, and paper electro phoresis. Chapter 1 gives enhanced help in choosing between alternative methods for determining ionization constants. The two chapters on potentiometric methods have been extensively revised in the light of newer understanding of electrode processes and of the present state of the art in instrumen tation.

American Laboratory MDPI

Because we are living in an era of Green Science and Technology, developments in the field of bio- and nano- polymer composite materials for advanced structural and medical applications is a rapidly emerging area and the subject of scientific attention. In light of the continuously deteriorating environmental conditions, researchers all over the world have focused an enormous amount of scientific research towards bio-based materials because of their cost effectiveness, eco-friendliness and renewability. This handbook deals with cellulose fibers and nano-fibers and covers the latest advances in bio- and nano- polymer composite materials. This rapidly expanding field is generating many exciting new materials with novel properties and promises to yield advanced applications in diverse fields. This book reviews vital issues and topics and will be of interest to academicians, research scholars, polymer engineers and researchers in industries working in the subject area. It will also be a valuable resource for undergraduate and postgraduate students at institutes of plastic engineering and other technical institutes.

Catalytic Conversion of Energy Resources into High Value-Added Products Universal-Publishers

This book highlights and reviews the renewable feed stock principle of green nanotechnology by focusing the use of plant-derived cardanol as a renewable starting material for the synthesis of advanced materials. The book presents the chemistry of cardanol and methods of isolation, covers macro and nano structures based on cardanol as well as potential applications of such materials. Future perspectives on cardanol based green nanotechnology are highlighted in the final chapter.

Report No. G- ...: Unemployment and increasing productivity MDPI

Contains a list of all manufacturers and other specified processors of medical devices registered with the Food and Drug Administration, and permitted to do business in the U.S., with addresses and telephone numbers. Organized by FDA medical device name, in alphabetical order. Keyword index to FDA established standard names of medical devices.

Semi-Solid Processing of Alloys and Composites Frontiers Media SA

Developing active, selective and energy-efficient heterogeneous catalysts is of paramount importance for the production of high value-added products from energy resources in a more sustainable manner. In this Special Issue of Energies, we provide a showcase of the latest progress in the development of cleaner, more efficient processes for the conversion of these feedstocks into valuable fuels, chemicals and energy. Most of the works collected are focused on the conversion of biomass which clearly reflects the paramount importance that the biorefinery concept will play in the years to come.

Advances in Sustainable Viticulture and Winemaking Microbiology Cuvillier Verlag

The International Union of Pure and Applied Chemistry (IUPAC) defines the term “speciation” as the distribution of an element amongst defined chemical species in a system, while the process leading to quantitative estimation of the content of different species is called speciation analysis. The chemical speciation of elements in natural waters and biological fluids is a key topic, essential for discussing the chemical reactivity of constituents in these systems. It is well understood that it is the chemical form of a metal or metalloids that determines its reactivity, lifetime, and fate in the environment. Chemical speciation now involves various sectors of the sciences, from chemistry to biology, biochemistry, and environmental sciences, since—as is well known—the total concentration, alone, of an inorganic or organic component (metal or ligand) in a multicomponent natural system (fresh water, sea water, biological fluids, soil, etc.) is insufficient for a comprehensive understand of its behavior in those contests.

PTB Mitteilungen Forschen und Prhufen ABRAMS

Collating otherwise hard-to-get and recently acquired knowledge in one work, this is a comprehensive reference on the synthesis, properties, characterization, and applications of this eco-friendly class of plastics. A group of internationally renowned researchers offer their first-hand experience and knowledge, dealing exclusively with those biodegradable polyesters that have become increasingly important over the past two decades due to environmental concerns on the one hand and newly-devised applications in the biomedical field on the other. The result is an unparalleled overview for the industrial chemist and materials scientist, as well as for developers and researchers in industry and academia alike.

Introgression Breeding in Cultivated Plants Frontiers Media SA

The combination of functional polymers with inorganic nanostructured compounds has become a major area of research and technological development owing to the remarkable properties and multifunctionalities deriving from their nano and hybrid structures. In this context, polyhedral oligomeric silsesquioxanes (POSSs) have increasing importance and a dominant position with respect to the reinforcement of polymeric materials. Although POSSs were first described in 1946 by Scott, these materials, however, have not immediately been successful if we consider that, starting from 1946 and up to 1995, we find in the literature 85 manuscripts regarding POSSs; which means that less than two papers per year were published over 50 years. Since 1995, we observe an exponential growth of scientific manuscripts concerning POSSs. It is changing from an annual average of 20 manuscripts for the period 1995–2000 to an annual average of about 400 manuscripts, with an increase of 2800%. The introduction of POSSs inorganic nanostructures into polymers gives rise to polymer nanostructured materials (PNMs) with interesting mechanical and physical properties, thus representing a radical alternative to the traditional filled polymers or polymer compositions.

The Determination of Ionization Constants Carbon Dioxide Chemistry, Capture and Oil Recovery

Semi-solid metal (SSM) processing, as a viable alternative manufacturing route to those of

conventional casting and forging, has not yet been fully exploited despite nearly half a century since its introduction to the metal industry. The slow pace of adopting SSM routes may be due to various reasons, including capital costs, profit margins, and, most importantly, the lack of detailed analysis of various SSM processes in open literature to confidently establish their advantages over more conventional routes. Therefore, the SSM community must disseminate their findings more effectively to generate increased confidence in SSM processes in the eyes of our industrial leaders. As such, we have embarked on the task to invite the leaders in SSM research to share their findings in a Special Issue dedicated to semi-solid processing of metals and composites. SSM processing takes advantage of both forming and shaping characteristics usually employed for liquid and solid materials. In the absence of shear forces, the semi-solid metal has similar characteristics to solids, i.e., easily transferred and shaped; by applying a defined force, the viscosity is reduced and the material flows like a liquid. These unique dual characteristics have made SSM routes attractive alternatives to conventional casting on an industrial scale. With the intention of taking full advantage of SSM characteristics, it is crucial to understand SSM processing, including topics such as solidification and structural evolution, flow behavior through modelling and rheology, new processes and process control, alloy development, and properties in general. This Special Issue focuses on the recent research and findings in the field with the aim of filling the gap between industry and academia, and to shed light on some of the fundamentals of science and technology of semi-solid processing.

Chemical Speciation of Organic and Inorganic components of Environmental and Biological Interest in Natural Fluids CRC Press

Researchers from North America and Western Europe discuss the state of the art research on gene expression in plants as affected by various stresses such as water deficit, seed dessication, anoxia, salinity, temperature extremes, heavy metals, air pollutants, and infection by pathogens. They also look at the possibilities of exploiting genes that regulate ozone resistance and the ingenious molecular strategies that have been developed by plants for dealing with pathogen attack. Annotation copyright by Book News, Inc., Portland, OR

MicroRNA Signatures in Plant Genome Stability and Genotoxic Stress CRC Press

Carbon Dioxide Chemistry, Capture and Oil RecoveryBoD – Books on Demand

Rock and Mineral Analysis CRC Press

Aufgrund der steigenden Nachfrage an Lithium werden effektive Verfahren zur Lithium-produktion gesucht. Die größten Lithiumvorkommen sind die Salzseen Südamerikas: Salar de Atacama in Chile und Salar de Uyuni in Bolivien. Im Rahmen dieser Arbeit sollten qualifizierbare Prozessgrundlagen erarbeitet werden. Als Ausgangsmaterial kam eine eingetrocknete Salzmischung des Salar de Uyuni kurz nach der Carnallitabscheidung zum Einsatz. Der Hauptbestandteil war Bischofit neben Lithiumchlorid. Zur Calcinierung wurde ein geeigneter Ofenprozess für die Erzeugung einer größeren Menge Röstgut unter reproduzierbaren Bedingungen entwickelt. Die Extrahierbarkeit von wasserlöslichen Lithiumsalzen aus calciniertem Magnesiumoxid wurde in verschiedenen Laugungsexperimenten untersucht. Mit diesen Grundlagen wurde eine Material- und Energiebilanz für die Erzeugung von 1 t Li2CO3 erstellt und im Zusammenhang mit der Nutzung verschiedener Energiearten diskutiert.

Medical Device Register CSIRO PUBLISHING

Fossil fuels still need to meet the growing demand of global economic development, yet they are often considered as one of the main sources of the CO2 release in the atmosphere. CO2, which is the primary greenhouse gas (GHG), is periodically exchanged among the land surface, ocean, and atmosphere where various creatures absorb and produce it daily. However, the balanced processes of producing and consuming the CO2 by nature are unfortunately faced by the anthropogenic release of CO2. Decreasing the emissions of these greenhouse gases is becoming more urgent. Therefore, carbon sequestration and storage (CSS) of CO2, its utilization in oil recovery, as well as its conversion into fuels and chemicals emerge as active options and potential strategies to mitigate CO2 emissions and climate change, energy crises, and challenges in the storage of energy.

Biochar Springer Science & Business Media

This book introduces the reader to algal diversity as currently understood and then traces the photosynthetic structures and mechanisms that contribute so much to making the algae unique. Indeed the field is now so large that no one expert can hope to cover it all. The 19 articles are each written by experts in their area; ranging over all the essential aspects and making for a comprehensive coverage of the whole field. Important developments in molecular biology, especially transformation mutants in Chlamydomonas, are dealt with, as well as areas important to global climate change, carbon dioxide exchange, light harvesting, energy transduction, biotechnology and many others. The book is intended for use by graduate students and beginning researchers in the areas of molecular and cell biology, integrative biology, plant biology, biochemistry and biophysics, biotechnology, global ecology, and phycology.

Lithiumgewinnung über eine Calcinierung von Salzsee-Kristallisaten MDPI

Cleaner Combustion and Sustainable World is the proceedings of the 7th International Symposium on Coal Combustion which has a significant international influence. It concerns basic research on coal combustion and clean utilization, techniques and equipments of pulverized coal combustion, techniques and equipments of fluidized bed combustion, basic research and techniques of emission control, basic research and application techniques of carbon capture and storage (CCS), etc. Professor Haiying Qi and Bo Zhao both work at the Tsinghua University, China

Photosynthesis in Algae John Wiley & Sons

The rapid development of HPLC instrumentation and technology opens numerous possibilities - and entails new questions. Which column should I choose to obtain best results, which gradient fits to my analytical problem, what are recent and promising trends in detection techniques, what is state of the art regarding LC-MS coupling? All these questions are answered by experts in ten self-contained chapters. Besides these more hardware-related and technical chapters, further related areas of interest are covered: Comparison of recent chromatographic data systems and integration strategies, smart documentation, efficient information search in internet, and tips for a successful FDA inspection. This practical approach offers in a condensed manner recent trends and hints, and will also display the advanced reader mistakes and errors he was not aware of so far.