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## BIANCA LILLY

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InTech BoD - Books on Demand

In this issue of Hematology/Oncology Clinics, guest editors Drs. Sophie Lanzkron and Jane Little bring their considerable expertise to the topic of Sickle Cell Syndromes. Top experts in the field cover key topics such as structural racism and impact on sickle cell disease (SCD); pathophysiology and biomarkers of SCD; genetic modifiers of SCD; allogeneic transplant and gene therapy; reproductive health; chronic pain; and more. Contains 16 relevant, practice-oriented topics including innovative therapies, addressing challenging complications, novel science on mechanisms of disease; preventing cognitive decline in people with SCD; quality of life in SCD; and more. Provides in-depth clinical reviews on sickle cell syndromes, offering actionable insights for clinical practice. Presents the latest information on this timely, focused topic

under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews.

Legumes Research CRC Press

Industrial Biorefineries and White Biotechnology provides a comprehensive look at the increasing focus on developing the processes and technologies needed for the conversion of biomass to liquid and gaseous fuels and chemicals, in particular, the development of low-cost technologies. During the last 3-4 years, there have been scientific and technological developments in the area; this book represents the most updated information and technological perspective on the topic. - Provides information on the most advanced and innovative pretreatment processes and technologies for biomass - Covers information on lignocellulosic and algal biomass to work on the principles of biorefinery - Provides information on integration of processes for the pretreatment of biomass - Designed as a

textbook for both graduate students and researchers

**Sickle Cell Syndromes, An Issue of Hematology/Oncology Clinics of North**

**America, E-Book** IGI Global

This book constitutes the proceedings of the 14th IFIP TC 8 International Conference on Computer Information Systems and Industrial Management, CISIM 2015, held in Warsaw, Poland, in September 2015. The 47 papers presented in this volume were carefully reviewed and selected from about 80 submissions. The main topics covered are biometrics, security systems, multimedia, classification and clustering with applications, and industrial management.

Boating Bentham Science Publishers

This book includes 19 chapters contributed by the world's leading experts on pretreatment methods for biomass. It extensively covers the different types of biomass (e.g. molasses, sugar beet pulp, cheese whey, sugarcane residues, palm waste, vegetable oil, straws, stalks and wood),

various pretreatment approaches (e.g. physical, thermal, chemical, physicochemical and biological) and methods that show the subsequent production of biofuels and chemicals such as sugars, ethanol, extracellular polysaccharides, biodiesel, gas and oil. In addition to traditional methods such as steam, hot-water, hydrothermal, diluted-acid, organosolv, ozonolysis, sulfite, milling, fungal and bacterial, microwave, ultrasonic, plasma, torrefaction, pelletization, gasification (including biogas) and liquefaction pretreatments, it also introduces and discusses novel techniques such as nano and solid catalysts, organic electrolyte solutions and ionic liquids. This book offers a review of state-of-the-art research and provides guidance for the future paths of developing pretreatment techniques of biomass for biofuels, especially in the fields of biotechnology, microbiology, chemistry, materials science and engineering. It intends to provide a systematic introduction of pretreatment techniques. It is an accessible reference work for students, researchers,

academicians and industrialists in biorefineries. Zhen Fang is a Professor of Bioenergy and the leader and founder of the biomass group at the Xishuangbanna Tropical Botanical Garden of the Chinese Academy of Sciences. He is also an adjunct full Professor of Life Sciences at the University of Science and Technology of China.

### **Multimedia Networking and Coding** Frontiers Media SA

This book collects chapters on different theoretical and experimental aspects of photonics crystals for Nanophotonics applications. It is divided in two parts - a theoretical section and an experimental and applicative section. The first part includes chapters developing several numerical methods for analysis and design of photonic crystal devices, such as 2D ring resonators for filters, single and coupled nanobeam cavities, birefringence in photonic crystal cavities, threshold analysis in photonic crystal lasers, gap solitons in photonic crystals, novel photonic atolls, dynamic characteristics of photonic crystal filters. The second

part focuses on some aspects of photonic crystals fabrication and relevant applications, such as nitrogen defect technology in diamond, silicon nitride free standing membranes, photonic crystals structures in silicon, photonic crystals for optical sensing. Plastics in the Environment IGI Global Sustainable management of natural resources is an urgent need, given the changing climatic conditions of Earth systems. The ability to monitor natural resources precisely and accurately is increasingly important. New and advanced remote sensing tools and techniques are continually being developed to monitor and manage natural resources in an effective way. Remote sensing technology uses electromagnetic sensors to record, measure and monitor even small variations in natural resources. The addition of new remote sensing datasets, processing techniques and software makes remote sensing an exact and cost-effective tool and technology for natural resource monitoring and management. Advances in Remote Sensing for

Natural Resources Monitoring provides a detailed overview of the potential applications of advanced satellite data in natural resource monitoring. The book determines how environmental and - ecological knowledge and satellite-based information can be effectively combined to address a wide array of current natural resource management needs. Each chapter covers different aspects of remote sensing approach to monitor the natural resources effectively, to provide a platform for decision and policy. This important work: Provides comprehensive coverage of advances and applications of remote sensing in natural resources monitoring Includes new and emerging approaches for resource monitoring with case studies Covers different aspects of forest, water, soil- land resources, and agriculture Provides exemplary illustration of themes such as glaciers, surface runoff, ground water potential and soil moisture content with temporal analysis Covers blue carbon, seawater intrusion, playa wetlands, and wetland inundation with case

studies Showcases disaster studies s *Agroforestry and Climate Change* Springer Groundbreaking, comprehensive, and developed by a panel of leading international experts in the field, *Textbook of Assisted Reproduction* provides a multidisciplinary overview of the diagnosis and management of infertility, which affects 15% of all couples around the world. The book aims to cover all aspects of assisted reproduction. Particular attention is given to topics such as the assessment of infertile couples; assisted reproductive techniques (ARTs) including ovulation induction, intra uterine insemination (IUI), in vitro fertilization (IVF) and intracytoplasmic sperm injection (clinical and laboratory aspects); reproductive genetics; and obstetric and perinatal outcomes.

**Liposomal Encapsulation in Food Science and Technology** John Wiley & Sons

An excellent, concise, and interdisciplinary overview of different classes of emerging pollutants arising, for example, from pharmaceuticals, pesticides, personal care

products, and industrial chemicals and their impact on water, soil, and air. Following an introduction to chemical pollutants, with special attention focused on organic compounds and their properties, the book goes on to describe major emerging pollutants grouped according to their applications in different sectors of industrial or economic activity. For each type of compound, the chemical structure, main properties, and source are presented, along with their fate in the environment as pollutants, the latest analytical methods for detection, possible health or ecology consequences, as well as current regulatory laws. New developments, such as nanotechnology as a pollution source, are also included. The book closes with a chapter devoted to conclusions and future perspectives.

**Immune pathogenesis of intestinal inflammatory diseases** John Wiley & Sons

The need for the development of biomaterials as scaffold for tissue regeneration is driven by the increasing demands for materials that mimic functions of

extracellular matrices of body tissues. Unfolding the Biopolymer Landscape provides a unique account of “biopolymeric interventions” inherent to biotechnological applications, soft tissue engineering, ophthalmic drug delivery, bionanotechnology, environmentally responsive systems, neurotherapeutics, and emulsions-based formulations for food and pharmaceutical applications. Chapters in this volume also cover biomedical applications and implications of cationic polymers, collagen-based substrates, multifunctional polymers, shape memory biopolymers, hybrid semisynthetic biomaterials, microbial exopolysaccharides, biomaterials mimicking the extracellular microenvironment, derivatized polysaccharides, and metallic biomaterials. Each chapter is distinctly written by experts in the respective fields and emphasis is given on the mechanistic profile of the performance of biopolymers and biomedical applications. This book provides both basic and advanced biopolymer information

for scientific experts and early career researchers in the field of drug delivery, tissue engineering, nanomedicine, food technology, peptide science, biomaterial design, and nutrition. This volume provides a unique account of “biopolymeric interventions” inherent to biotechnological applications, soft tissue engineering, ophthalmic drug delivery, bionanotechnology, environmentally responsive systems, neurotherapeutics, and emulsions-based formulations for food and pharmaceutical applications. **Boating** CRC Press

Plastics in the Environment is a collection of reviewed and relevant research chapters, offering a comprehensive overview of recent developments in the field of plastic pollution and how it is affecting the environment. The book comprises single chapters authored by various researchers and edited by an expert active in the research area. All chapters are complete in themselves but united under a common research study topic. This publication aims at providing a thorough

overview of the latest research efforts by international authors on the trending topic of plastics in the environment and opens new possible research paths for further novel developments.

**Northern California Proposed Oil and Gas Lease Sale 91** Academic Press

This book gives new insight to the study of the global environmental changes using the geoinformatics and microwave remote sensing tools together with the adaptive-evolutionary technology of geoinformation monitoring. The main advantage of this book consists in the accumulation of the interdisciplinary scientific knowledge for the parameterization of the global biogeochemical cycles and other environmental processes in the context of globalization and sustainable development. In this regard, the crucial global problems of the dynamics of the climate-nature-society system have been considered and the key problems of ensuring its sustainable development have been addressed. An analysis of the present trend in

changing ecological systems has been discussed, including different types of forest ecosystems and ocean aquatories. The emphasis has been given to the accomplishment of the global geoinformation monitoring, which could provide a reliable control of the environmental processes development with reliable prognostic estimates of the consequences of human activities. A new approach to the numerical modelling of the climate-nature-society system has been presented and demonstrative results have been given about the modelling of the dynamics of this system's characteristics, in cases of realization of some scenarios of the anthropogenic impacts to the biogeochemical cycles, the land ecosystems and oceans. Methods and algorithms for the big data manipulation and processing in the remote sensing environmental monitoring systems have been described.

Paperbound Books in Print

R. R. Bowker

Life Cycle Assessment of Wastewater Treatment addresses in detail the required in-depth life cycle assessment of

wastewater treatment. This is to meet the special demands placed upon wastewater treatment processes, due to both the limited quantity and often low quality of water supplies. Wastewater management clearly plays a central role in achieving future water security in a world where water stress is expected to increase. Life cycle assessment (LCA) can be used as a tool to evaluate the environmental impacts associated with wastewater treatment and potential improvement options. This unique volume will focus on the analysis of wastewater treatment plants (WWTPs), using a life cycle assessment (LCA) approach. Key Features: Focuses on the analysis of wastewater treatment plants using a life cycle assessment (LCA) approach Discusses unconventional water sources such as recycled wastewater, brackish groundwater and desalinated seawater Explains life cycle assessment in detail, which has become one of the reference methods used to assess the environmental performance of processes over their complete life cycle, from raw material

extraction, infrastructure construction and operation to final dismantling Explores a technique (LCA) that is becoming increasingly popular amongst researchers in the water treatment field nowadays because of its holistic approach Based on the real life experiences, the subject of wastewater is presented in simple terms and made accessible to anyone willing to learn and experiment *Pretreatment Techniques for Biofuels and Biorefineries* BoD – Books on Demand Advances in multimedia communication systems have enhanced the need for improved video coding standards. Due to the inherent nature of video content, large bandwidths and reliable communication links are required to ensure a satisfactory level of quality experience; inspiring industry and research communities to concentrate their efforts in this emerging research area. Multimedia Networking and Coding covers widespread knowledge and research as well as innovative applications in multimedia communication systems. This book highlights recent techniques that

can evolve into future multimedia communication systems, also showing experimental results from systems and applications.

**Practical Manual for Laparoscopic & Hysteroscopic Gynecological Surgery**

CRC Press

The field of polymer nanocomposites has become essential for engineering and military industries over the last few decades as it applies to computing, sensors, biomedical microelectronics, hard coating, and many other domains. Due to their outstanding mechanical and thermal features, polymer nanocomposite materials have recently been developed and now have a wide range of applications. *Polymer Nanocomposites for Advanced Engineering and Military Applications* provides emerging research on recent advances in the fabrication methods, properties, and applications of various nano-fillers including surface-modification methods and chemical functionalization. Featuring coverage on a broad range of topics such as barrier properties, biomedical

microelectronics, and matrix processing, this book is ideally designed for engineers, industrialists, chemists, government officials, military professionals, practitioners, academicians, researchers, and students.

*Scott-Brown's Otorhinolaryngology and Head and Neck Surgery*  
Elsevier

Nanoscience in Dermatology covers one of the two fastest growing areas within dermatological science, nanoscience and nanotechnology in dermatology. Recently, great progress has been made in the research and development of nanotechnologies and nanomaterials related to various applications in medicine and, in general, the life sciences. There is increasing enthusiasm for nanotechnology applications in dermatology (drug delivery, diagnostics, therapeutics, imaging, sensors, etc.) for understanding skin biology, improving early detection and treatment of skin diseases, and in the design and optimization of cosmetics. Light sensitive nanoparticles have

recently been explored, opening a new era for the combined applications of light with nanotechnology, also called photonanodermatology. However, concerns have been raised regarding the adverse effects of intentional and unintentional nanoparticle exposure and their toxicity. Written by experts working in these exciting fields, this book extensively covers nanotechnology applications, together with the fundamentals and toxicity aspects. It not only addresses current applications of nanotechnology, but also discusses future trends of these ever-growing and rapidly changing fields, providing scientists and dermatologists with a clear understanding of the advantages and challenges of nanotechnology in skin medicine. - Provides knowledge of current and future applications of nanoscience and nanotechnology in dermatology - Outlines the fundamentals, methods, toxicity aspects, and other relevant aspects for nanotechnology based applications in dermatology - Coherently structured book written by

experts working in the fields covered

**Nanoscience in Dermatology** IGI Global

The Instrument and Automation Engineers' Handbook (IAEH) is the #1 process automation handbook in the world. Volume one of the Fifth Edition, Measurement and Safety, covers safety sensors and the detectors of physical properties. Measurement and Safety is an invaluable resource that: Describes the detectors used in the measurement of process variables Offers application- and method-specific guidance for choosing the best measurement device Provides tables of detector capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas products, their features, capabilities, and suppliers, including suppliers' web addresses Complete with 163 alphabetized chapters and a thorough index for quick access to specific information, Measurement and Safety is a must-have reference for instrument and automation engineers working in the chemical, oil/gas, pharmaceutical, pollution, energy, plastics,

paper, wastewater, food, etc. industries. About the eBook The most important new feature of the IAEH, Fifth Edition is its availability as an eBook. The eBook provides the same content as the print edition, with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds of topics covered in the handbook. This feature includes a complete bidders' list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers.

**Computer Information Systems and Industrial Management** Springer Nature

Intellectual disabilities can be difficult to detect in children prior to their school-age years. Throughout their lives, individuals with intellectual disabilities may require specialized care and support in order to lead healthy and fulfilled lives. The Handbook of Research on Diagnosing, Treating, and Managing Intellectual Disabilities is a pivotal reference source for the latest research on the effects of disabilities in intellectual functioning,

examining the causes, treatment, and rehabilitation of such limitations in adaptive behavior. Highlighting empirical findings on the management of these disabilities throughout various stages of life, this publication is ideally designed for clinicians, researchers, special educators, social workers, and students actively involved in the mental health profession.

*Emerging Pollutants* Springer

Legumes have nutraceutical qualities that impart beneficial effects on human health. They are an alternative protein source with great potential for use in producing novel foods with improved nutritional properties. This book presents a comprehensive overview of legume proteins, including information on their nutritional and nutraceutical profiles, the health benefits of their compounds, and their underlying bioactivities such as anti-diabetic, hepatoprotective, anti-inflammatory, antioxidant, and anti-cancer properties.

**Bioethanol Production**

Academic Press

This book provides the latest research on



bioethanol production from first- and second-generation feedstock. Bioethanol has emerged as one of the main alternative biofuels in recent years. The book provides a perspective on the chemistry, sources and production of bioethanol highlighting the recent developments in the field. Through this book readers will learn basic and advanced bioethanol production technologies under one

roof, including resource management and environmental and economic impacts. The topics discussed in the book will attract researchers and scholars focusing in this field as well as anyone who is interested in green and sustainable energy resources.  
*Investigation of the Exxon Valdez Oil Spill, Prince William Sound, Alaska*  
 Springer Nature

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