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Value-Chain of Biofuels Springer

Recycling of Polymers This timely reference on the topic is the only book you need for a complete overview of recyclable polymers. Following an introduction to various polymer structures and their resulting properties, the main part of the book deals with different methods of recycling. It discusses in detail the recycling of such common polymers as polyethylene, polypropylene and PET, as well as rubbers, fibers, engineering polymers, polymer blends and composites. The whole is rounded off with a look at future technologies and the toxicological impact of recycled polymers. An indispensable reference source for those working in the field, whether in academia or industry, and whether newcomers or advanced readers.

Humanism and Resilience in Residency Training Elsevier

This book is the outcome of contributions by many experts in the field from different disciplines, various backgrounds, and diverse expertise. This book provides information on biomass volume calculation methods and biomass valorization for energy production. The chapters presented in this book include original research and review articles. I hope the research presented in this book will help to advance the use of biomass for bioenergy production and valorization. The key features of the book are: Providing information on biomass volume estimation using direct, nondestructive and remote sensing methods Biomass valorization for energy using thermochemical (gasification and pyrolysis) and biochemical (fermentation) conversion processes.

Bioalcohol Production Springer Nature

This book is a printed edition of the Special Issue "Pediatric Integrative Medicine: An Emerging Field of Pediatrics" that was published in *Children*

Emerging Swine Viruses BoD – Books on Demand

Microbial communities and their multi-functionalities play a crucial role in the management of soil and plant health, and thus help in managing agro-ecology, the environment and agriculture. Microorganisms are key players in N-fixation, nutrient acquisition, carbon sequestration, plant growth promotion,

pathogen suppression, induced systemic resistance and tolerance against stresses, and these parameters are used as indicators of improved crop productivity and sustainable soil health. Beneficial belowground microbial interactions in the rhizosphere help plants combat abiotic challenges in the unfavourable environmental conditions of native soils. These microorganisms and their products offer potential solutions for agriculture in problematic areas since they are able to degrade xenobiotic compounds, pesticides and toxic chemicals and help remediate heavy metals in the rhizosphere and so make deteriorated soils suitable for crop production. This book compiles the latest research on the role of microbes in the rhizosphere and agro-ecology, covering interaction mechanisms, microbe-mediated crop production, plant and soil health management, food and nutrition, nutrient recycling, land reclamation, clean water systems, agro-waste management, biodegradation, bioremediation, biomass and bioenergy, sanitation and rural livelihood security. It is a comprehensive reference resource for agricultural activists, policymakers, environmentalists and advisors working for governments, non-governmental organizations and industries, helping them update their knowledge of this important, but often neglected, research area.

Goal Attainment Scaling Elsevier

This reference details particle characterization, dynamics, manufacturing, handling, and processing for the employment of multiphase reactors, as well as procedures in reactor scale-up and design for applications in the chemical, mineral, petroleum, power, cement and pharmaceuticals industries. The authors discuss flow through fixed beds, elutriati

Stress and Emotion Oxford University Press

Educational inequalities have strongly impacted disadvantaged and underserved populations such as indigenous, Roma, migrant children, students with disabilities, and those affected by poverty. A wide array of research has contributed to explaining the mechanisms and effects of inequalities in the achievement patterns, dropout rates, disengagement in the school experiences of children and youth traditionally excluded. Research also suggests the negative consequences for child development – including cognitive, language, and social-emotional functioning – of poverty and lack of quality

education in the early years. Consequently, the current unequal access to optimal learning environments for every single child to succeed in education and to have a better life perpetuates the exclusion and neglects their right to education for those minorities. This Research Topic aims at moving beyond causes and shed light upon effective solutions by providing successful pathways for integration and inclusion of the learners most heavily affected. Scholars worldwide are looking for successful actions with children, youth, and communities of learners historically underserved to overcome educational and social exclusion. These transformative approaches go beyond the deficit thinking and are grounded in theories, empirical evidence, and multidisciplinary interventions oriented towards achieving social impact, which refers to the extent to which those actions have contributed to improve a societal challenge. The international network of "Schools as Learning Communities" is advancing knowledge on deepening and expanding the impact of what has been defined as Successful Educational Actions (SEAs); that is, those interventions that improve students' achievement and social cohesion and inclusion in many diverse contexts, regardless the socioeconomic, national, and cultural environment of schools. Drawing on the evidence generated by this network of researchers to address the global challenge of inequality by studying educational actions oriented towards achieving social impact and potentially transferrable to other contexts, this Research Topic aims at deepening on this approach. In short, our purpose is that the contributions included in this Research Topic contribute to reduce educational and social inequalities and especially benefit those populations most in need.

Pulp and Paper Chemistry and Technology. 4 Vols Elsevier

There is an extensive literature on Goal Attainment Scaling (GAS), but the publications are widely scattered and often inaccessible, covering several foreign countries and many professional disciplines and fields of application. This book provides both a user manual and a complete reference work on GAS, including a comprehensive account of what the method is, what its strengths and limitations are, how it can be used, and what it can offer. The book is designed to be of interest to service providers, program directors and administrators, service and business organizations, program evaluators, researchers, and students in a variety of fields. No previous account of GAS has provided an up-to-date, comprehensive description and explanation of the technique. The chapters include a basic "how to do it" handbook, step-by-step implementation instructions, frequently occurring problems and what should be done about them, methods for monitoring the quality of the goal setting process, and a discussion of policy and administration issues. There are many illustrations from actual applications including examples of goals scaled for the individual, the specific program, the agency, or the total system. Procedures for training and estimates of training costs are also provided.

A Fundamental Practical Theology Tornos Amutio-Cazeneuve Value-Chain of Biofuels

Mayo Clinic Strategies to Reduce Burnout: 12 Actions to Create the Ideal Workplace tells the story of the evolving journey of those in the medical profession. It dwells not on the story of burnout, distress, compassion fatigue, moral injury, and cognitive dissonance but rather on a narrative of hope for professional fulfillment, well-being, joy, and camaraderie. Achieving this aim requires health care professionals and administrative leaders working together to create the ideal workplace through nurturing positivity and pushing negativity aside. The ultimate aspiration is esprit de corps—the common spirit existing in members of a group that inspires enthusiasm, devotion, loyalty, camaraderie, engagement, and strong regard for the welfare of the team and of common interests and responsibilities. Mayo Clinic Strategies to Reduce Burnout: 12 Actions to Create the Ideal Workplace provides a road map for you to create esprit de corps for your team and organization. The map is paved with information about reliable, patient-centered, and thoughtful systems embedded within psychologically safe and just cultures. The authors drew on their extensive research on the well-being of health care

professionals; from their experience in quality, department operations, leadership and organization development, management, safe havens, and care teams; and from their roles as president, chief wellness officer, chief quality officer, chair, principal investigator, senior fellow, and board director.

Induced Breeding in Tropical Fish Culture Frontiers Media SA

This book presents an innovative approach to clinical assessment in psychiatry based on a number of psychopathological dimensions with a presumed underlying pathophysiology, that are related to fundamental phenomenological aspects and lie on a continuum from normality to pathology. It is described how the evaluation of these dimensions with a specific, validated rapid assessment instrument could easily integrate and enrich the classical diagnostic DSM-5 or ICD-10 assessment. The supplemental use of this dimensional approach can better capture the complexity underlying current categories of mental illness. The findings from a large patient sample suggest how this assessment could give a first glance at how variable and multifaceted the psychopathological components within a single diagnostic category can be, and thereby optimize diagnosis and treatment choices. Being short and easy to complete, this dimensional assessment can be done in a busy clinical setting, during an ordinary psychiatric visit, and in an acute clinical context, with limited effort by a minimally trained clinician. Therefore, it provides interesting and useful information without additional costs, and allows research work to be performed even in difficult settings.

Biomass Volume Estimation and Valorization for Energy Springer Nature

Virginia Mason Medical Center (VMMC) was one of the first health care organizations to implement Lean and its methodologies. Other organizations have followed VMMC's lead, but this world class organization still leads in the utilization of innovative Lean tools. Accelerating Health Care Transformation with Lean and Innovation: The Virginia Mason Experience describes how VMMC has systematically integrated innovative structures, methods, and cultural practices into its implementation of Lean. Describing how your organization can create a strategy and build a culture of innovation and learning, it supplies concrete examples that show—not just conceptually, but through VMMC's actual experiences—how Lean and innovation can work hand-in-hand to incrementally improve and radically transform your value streams. Explaining how to use the voices and experiences of patients and their families to drive improvement and innovation in new directions, the book supplies a clear understanding of how Lean can help you achieve your goals in today's increasingly demanding marketplace.

Recycling of Polymers Crown House Publishing

Scripts and Strategies in Hypnotherapy Volumes 1 and 2 have been combined to create the single most comprehensive source of scripts and strategies that can be used by hypnotherapists of all levels of experience to build a successful framework for any therapy session. It covers inductions, deepeners and actual scripts for a wide range of problems from nail-biting to insomnia, sports performance to past life recall, pain management to resolving sexual problems. There is a particularly comprehensive section on smoking cessation. All scripts can be used as they stand or adapted for specific situations. "Provides an imaginative source of scripts covering the most commonly met cases. For the newly qualified therapist it is a useful addition and for the more experienced it is a source of inspiration." - European Journal of Clinical Hypnosis

Microarray Innovations Springer

This book aims to help identify pre-existing adaptive traits and positive perspectives in resident trainees, while challenging those that are less adaptive by building a formal curriculum for medical education that focuses on the humanistic aspects of medicine. Humanism in medicine is threatened by the false narrative that good physicians are superhumans who do not have their own needs. Written by experts in the field, this book is designed to be a concise, integrated guide to resilience during residency training. Through this guide, trainees learn (i) the

usefulness of psychotherapeutic strategies for their own stress management and well-being; (ii) techniques and strategies that are useful in the practice of medicine; and (iii) to consider lifestyle modifications to improve physical and psychological health and well-being, through identification of positive and negative lifestyle factors influencing physicians' response to stress. Since it is designed for busy trainees and physicians, this volume meticulously provides easy-to-use, evidence-based learning tools and therapeutic techniques, including case studies, skill-building exercises, self-test questionnaires, illustrations, useful practice-reminder tips, and other features. *Humanism and Resilience in Residency Training* is an excellent resource for all medical trainees and professionals who need to incorporate humanism and resilience in their practice, both for accreditation requirements and for personal well-being. This includes medical students and residents, psychiatrists, addiction medicine specialists, family physicians, medical education professionals, hospitalists, nurses, and all healthcare providers

Microbial Interventions in Agriculture and Environment International Development Research Centre Books

This proceedings volume represents the culmination of nearly three years of planning, organizing and carrying out of a NATO Advanced Study Institute on Biomass Utilization. The effort was initiated by Dr. Harry Sobel, then Editor of *Biosources Digest*, and a steering committee representing the many disciplines that this field brings together. When the fiscal and logistical details of the original plan could not be worked out, the idea was temporarily suspended. In the spring of 1982, the Renewable Materials Institute of the State University of New York at the College of Environmental Science and Forestry in Syracuse, New York revived the plan. A number of modifications had to be made, including the venue which was changed from the U.S.A. to Portugal. Additional funding beyond the basic support provided by the Scientific Affairs Division of NATO had to be obtained. Ultimately there were supplementary grants from the Foundation for Microbiology and the Anne S. Richardson Fund to assist student participants. The New York State College of Forestry Foundation, Inc. provided major support through the Renewable Materials Institute. The ASI was held in Alcabideche, Portugal from September 26 to October 9, 1982. Eighty participants including fifteen principal lecturers were assembled at the Hotel Sintra Estoril for the program that was organized as a comprehensive course on biomass utilization. The main lectures were supplemented by relevant short papers offered by the participants.

Handbook of Fluidization and Fluid-Particle Systems Walter de Gruyter GmbH & Co KG

The issue of *Cancers Journal* entitled "Role of Medical Imaging in Cancers" presents a detailed summary of evidences about molecular imaging, including the role of computed tomography (CT), magnetic resonance imaging (MRI), single photon emission tomography (SPET) and positron emission tomography (PET) or PET/CT or PET/MR imaging in many type of tumors (i.e. sarcoma, prostate, breast and others), motivating the role of these imaging modalities in different setting of disease and showing the recent developments, in terms of radiopharmaceuticals, software and artificial intelligence in this field. The collection of articles is very useful for many specialists, because it has been conceived for a multidisciplinary point of view, in order to drive to a personalized medicine.

Hydrocarbon Biorefinery MDPI

This volume is a sequel to the landmark work that established an exciting new field of study, *Stress, Appraisal and Coping* (Lazarus and Folkman, 1984). The author now explores the newest trends in research and theory, focusing on the rationale for a cognitive-mediational approach to stress and

emotions. He makes clear distinctions between social stress, physiological stress, and psychological stress. By integrating both stress and emotion into one theoretical framework, with appraisal and coping as its basis, this book takes a narrative approach to both theory and research. Lazarus concludes with a look at stress and health, with a specific focus on new developments in infectious diseases, the role of the nervous system, and his view of recent changes in psychotherapy. For all upper division psychology majors, graduate students, academics, and professionals in related fields

Pediatric Integrative Medicine: An Emerging Field of Pediatrics Amer Psychiatric Pub Incorporated

The globally escalating population necessitates production of more goods and services to fulfil the expanding demands of human beings which resulted in urbanization and industrialization. Uncontrolled industrialization caused two major problems – energy crisis and accelerated environmental pollution throughout the world. Presently, there are technologies which have been proposed or shown to tackle both the problems. Researchers continue to seek more cost effective and environmentally beneficial pathways for problem solving. Plant kingdom comprises of species which have the potential to resolve the couple problem of pollution and energy. Plants are considered as a potential feedstock for development of renewable energy through biofuels. Another important aspect of plants is their capacity to sequester carbon dioxide and absorb, degrade, and stabilize environmental pollutants such as heavy metals, poly-aromatic hydrocarbons, poly-aromatic biphenyls, radioactive materials, and other chemicals. Thus, plants may be used to provide renewable energy generation and pollution mitigation. An approach that could amalgamate the two aspects can be achieved through phytoremediation (using plants to clean up polluted soil and water), and subsequent generation of energy from the phytoremediator plants. This would be a major advance in achieving sustainability that focuses on optimizing 'people' (social issues), 'planet' (environmental issues), and 'profit' (financial issues). The "Phytoremediation-Cellulosic Biofuels" (PCB) process will be socially beneficial through reducing pollution impacts on people, ecologically beneficial through pollution abatement, and economically viable through providing revenue that supplies an energy source that is renewable and also provides less dependence on importing foreign energy (energy-independence). The utilization of green plants for pollution remediation and energy production will also tackle some other important global concerns like global climate change, ocean acidification, and land degradation through carbon sequestration, reduced emissions of other greenhouse gases, restoration of degraded lands and waters, and more. This book addresses the overall potential of major plants that have the potential to fulfil the dual purposes of phytoremediation and energy generation. The non-edible bioenergy plants that are explored for this dual objective include *Jatropha curcas*, *Ricinus communis*, *Leucaena leucocephala*, *Milletia pinnata*, *Canabis sativa*, *Azadirachta indica*, and *Acacia nilotica*. The book addresses all possible aspects of phytoremediation and energy generation in a holistic way. The contributors are one of most authoritative experts in the field and have covered and compiled the best content most comprehensively. The book is going to be extremely useful for researchers in the area, research students, academicians and also for policy makers for an inclusive understanding and assessment of potential in plant kingdom to solve the dual problem of energy and pollution.

Waste Biorefineries: Future Energy, Green Products and Waste Treatment CRC Press

Tornos Amutio-Cazeneuve Value-Chain of Biofuels Elsevier

Pyrolysis - GC/MS Data Book of Synthetic Polymers Prentice Hall

This book discusses key aspects of childhood acute lymphoblastic leukemia (ALL), presenting the latest research on the biology and treatment of the disease and related issues. The cure rate for ALL has improved dramatically due to advances such as supportive care, treatment stratification based on relapse risk, and the optimization of treatment regimens. Gathering contributions by eminent scholars *Pediatric Acute Lymphoblastic Leukemia* is a valuable resource for pediatric hematologists as well as for medical students, interns, residents and fellows. It not

only offers comprehensive insights, but also provides a springboard for future research.

Scripts & Strategies in Hypnotherapy Psychology Press

Value-Chain of Biofuels: Fundamentals, Technology, and Standardization presents the fundamental aspects of biofuel production, from biomass conversion technologies and biofuels' end products to related policy regulation and standardization. Sections explore the current biofuels industry, addressing pretreatment, feedstocks, and conversion processes, review different pathways to produce biofuels, including bioethanol, biochar, biogas/bio-hydrogen, bio-oil, biodiesel, and many others, and finally, present policy regulation and standardization on biofuel production, with a focus on applications. Case studies are provided alongside reviews from academic and industry perspectives, discussing economics and lifecycle assessments (LCA) of biofuel production, as well as analyses of supply chains. Offering a comprehensive and timely overview, this book provides an ideal reference for researchers and practitioners working in bioenergy and renewable energy, but it will also be of interest to chemists, bioengineers, chemical engineers, and the agricultural and petrochemical industries. Helps readers gain academic and industry perspectives on biofuel production with the inclusion of lab-based experimentation and informative case studies Contains an exhaustive analysis of biomass conversion technologies for biofuels and biochemicals Provides a clear and concise text that avoids the overuse of jargon and technical language

Posttraumatic Stress Disorder Springer Publishing Company

With the development of societies fossil energy is no longer the only energy resource, and increasing attention had been paid to alternative energy. Biomass is considered to be one of the alternatives due to efficiency and low cost. This book presents biomass pyrolysis behavior for three main components: Cellulose, Hemicellulose and Lignin, and discusses the influence of mineral salts , zeolite catalysts and metal oxide on their pyrolysis.