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Pollution is one of the most serious issues facing mankind and other life forms on earth. Environmental pollution leads to the degradation of ecosystems, loss of services, economic losses, and various other problems. The eco-friendliest approach to rejuvenating polluted ecosystems is with the help of microorganism-based bioremediation. Microorganisms are characterized by great biodiversity, genetic and metabolic machinery, and by their ability to survive, even in extremely polluted environments. As such, they are and will remain the most important tools for restoring polluted ecosystems / habitats. This three-volume book sheds light on the utilization of microorganisms and the latest technologies for cleaning up polluted sites. It also discusses the remediation or degradation of various important pollutants such as pesticides, wastewater, plastics, PAHs, oil spills etc. The book also explains the latest technologies used for the degradation of pollutants in several niche ecosystems. Given its scope, the book will be of interest to teachers, researchers, bioremediation scientists, capacity builders and policymakers. It also offers valuable additional reading material for undergraduate and graduate students of microbiology, ecology, soil science, and the environmental sciences. Für Unternehmen existenziell: Immer am Ball bleiben und das eigene Geschäft proaktiv an Veränderungen anpassen. Dieses Buch zeigt, wie es geht! - Geniale Methode, um das eigene Geschäftsmodell weiterzuentwickeln oder neue Geschäftsmodelle zu entwickeln - Unverzichtbares Werk für alle, die über das Geschäftsmodell Wettbewerbsvorteile erzielen wollen und auf der Suche nach einem „Feuerwerk der Ideen“ sind - Begleitmaterial zum Download Oliver Gassmann, Karolin Frankenberger und Michaela Csik sind herausragende Experten der Innovation. Mit diesem Werk ist ihnen ein international viel beachteter Meilenstein zur Entwicklung von Geschäftsmodellen gelungen. "Der St.Galler Business Model Navigator ermöglicht, aus der eigenen Branchenlogik auszubrechen, und macht damit den Weg frei für ein Feuerwerk neuer Ideen." Wolfgang Rieder, Managing Partner, Head of Advisory Switzerland, PricewaterhouseCoopers "Mit dem Business Model Navigator sind wir in der Lage, das Geschäftsmodell als Ganzes zu begreifen und am kompletten System zu arbeiten. Die St.Galler Methodik bringt nicht nur Ergebnisse, sondern erweitert auch den Mindset." Daniel

Sennheiser, President Strategy and Finance, Sennheiser „The St. Gallen Business Model Navigator offers a great opportunity to challenge our habitual thinking concerning business models and revenue generation.” Dr. Ian Roberts, CTO, Bühler "An aspiring field such as New Space really benefits from the St.Gallen Business Model Navigator because the market will be defined by a variety of innovative business models - going through all the possibilities is a real competitive advantage!" Dr. Henning Roedel, NASA Ames Research Center The Lloyd's Register of Shipping records the details of merchant vessels over 100 gross tonnes, which are self-propelled and sea-going, regardless of classification. Before the time, only those vessels classed by Lloyd's Register were listed. Vessels are listed alphabetically by their current name. Proteins: Sustainable Source, Processing and Applications addresses sustainable proteins, with an emphasis on proteins of animal origin, plant-based and insect proteins, microalgal single cell proteins, extraction, production, the stability and bioengineering of proteins, food applications (e.g. encapsulation, films and coatings), consumer behavior and sustainable consumption. Written in a scientific manner to meet the needs of chemists, food scientists, technologists, new product developers and academics, this book addresses the health effects and properties of proteins, highlights sustainable sources, processes and consumption models, and analyzes the potentiality of already commercialized processes and products. This book is an integral resource that supports the current applications of proteins in the food industry, along with those that are currently under development. Supports the current applications of proteins in the food industry, along with those that are under development Connects the properties and health effects of proteins with sustainable sources, recovery procedures, stability and encapsulation Explores industrial applications that are affected by aforementioned aspects International Review of Cell and Molecular Biology, Volume 337 reviews and details current advances in cell and molecular biology. The IRCMB series has a worldwide readership, maintaining a high standard by publishing invited articles on important and timely topics that are authored by prominent cell and molecular biologists. Sections in this new release include the karyosphere (karyosome) and its peculiar structure of the oocyte nucleus, organoids as models of disease, lipid droplets as organelles, the dark side of apoptosis, interconnections between autophagy and secretion, and the regulation and function of intracellular pressure in cell biology. Publishes invited review articles on selected topics Authored by established and active cell and molecular biologists whose work is drawn from international sources Offers a wide range of perspectives on specific subjects This book opens up a critical dimension of energy transition taking in account multidimensional challenges on economic, social and environmental fields. The book discusses the trends in the field of energy transition and evolving practices adopted by public authorities and companies for betterment of environment and society. The editors (4) identify directions and challenges involved in the energy transition. The novelty of this book is the multidisciplinary approach, being presented the economic, social

and environmental challenges involved in the energy transition. The energy transition is accompanied by a complex process of changing attitudes and behaviors of energy consumers and producers. The consequences are profound not only economically and environmentally but also socially, renewable energy being a solution for energy poverty reduction and development of rural communities. Therefore, certain social and environmental problems generated by energy poverty are solved by using renewable energy. Moreover, the complexity of the phenomenon is presented not only in terms of the analysis of the main sources of renewable energy but also the ethical aspects involved in the use of sources such as biofuels. In the case of this source, the main problem is whether the use of certain agricultural products for the production of biofuels threatens food security, especially in rural areas. All categories of stakeholders must show responsibility and get involved in this complex process which requires a remarkable technical and financial effort. The energy transition can offer innovative solutions through which the impact of economic activity on the environment is minimized, and in this way, industrial ecology achieves its objectives to support sustainable development. The demands imposed by industrial ecology must shape not only the behavior of oil and gas companies but also of entities involved in the production and consumption of renewable energy. Given the negative externalities generated, companies in the fossil fuel sector have become increasingly socially responsible, their social and environmental performance (non-financial) being presented in detail in the annual sustainability reports to inform stakeholders. Therefore, this book is an important read not only for scholars, but also for those who are interested in ensuring an environmentally sustainable future taking in account energy transition challenges. Today's world is continually facing complex and life-threatening issues that are too difficult or even impossible to solve. These challenges have been titled "wicked" problems due to their radical and multifarious nature. Recently, there has been a focus on global cooperation and gathering creative and diverse methods from around the world to solve these issues. Accumulating research and information on these collective intelligence methods is vital in comprehending current international issues and what possible solutions are being developed through the use of global collaboration. The Handbook of Research on Using Global Collective Intelligence and Creativity to Solve Wicked Problems is a pivotal reference source that provides vital research on the collaboration between global communities in developing creative solutions for radical worldwide issues. While highlighting topics such as collaboration technologies, neuro-leadership, and sustainable global solutions, this publication explores diverse collections of problem-solving methods and applying them on a global scale. This book is ideally designed for scholars, researchers, students, policymakers, strategists, economists, and educators seeking current research on problem-solving methods using collective intelligence and creativity. Undoubtedly the applications of polymers are rapidly evolving. Technology is continually changing and quickly advancing as polymers are needed to solve a variety of day-to-day challenges leading to

improvements in quality of life. The Encyclopedia of Polymer Applications presents state-of-the-art research and development on the applications of polymers. This groundbreaking work provides important overviews to help stimulate further advancements in all areas of polymers. This comprehensive multi-volume reference includes articles contributed from a diverse and global team of renowned researchers. It offers a broad-based perspective on a multitude of topics in a variety of applications, as well as detailed research information, figures, tables, illustrations, and references. The encyclopedia provides introductions, classifications, properties, selection, types, technologies, shelf-life, recycling, testing and applications for each of the entries where applicable. It features critical content for both novices and experts including, engineers, scientists (polymer scientists, materials scientists, biomedical engineers, macromolecular chemists), researchers, and students, as well as interested readers in academia, industry, and research institutions. This book is open access under a CC BY 4.0 license. This book defines the new field of "Bioeconomy" as the sustainable and innovative use of biomass and biological knowledge to provide food, feed, industrial products, bioenergy and ecological services. The chapters highlight the importance of bioeconomy-related concepts in public, scientific, and political discourse. Using an interdisciplinary approach, the authors outline the dimensions of the bioeconomy as a means of achieving sustainability. The authors are ideally situated to elaborate on the diverse aspects of the bioeconomy. They have acquired in-depth experience of interdisciplinary research through the university's focus on "Bioeconomy", its contribution to the Bioeconomy Research Program of the federal state of Baden-Württemberg, and its participation in the German Bioeconomy Council. With the number of bioeconomy-related projects at European universities rising, this book will provide graduate students and researchers with background information on the bioeconomy. It will familiarize scientific readers with bioeconomy-related terms and give scientific background for economists, agronomists and natural scientists alike. The two-volume set IFIP AICT 639 and 640 constitutes the refereed post-conference proceedings of the 18th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2021, held in Curitiba, Brazil, during July 11-14, 2021. The conference was held virtually due to the COVID-19 crisis. The 107 revised full papers presented in these proceedings were carefully reviewed and selected from 133 submissions. The papers are organized in the following topical sections: Volume I: Sustainability, sustainable development and circular economy; sustainability and information technologies and services; green and blue technologies; AI and blockchain integration with enterprise applications; PLM maturity, PLM implementation and adoption within industry 4.0; and industry 4.0 and emerging technologies: Volume II: Design, education and management; lean, design and innovation technologies; information technology models and design; and models, manufacturing and information technologies and services. Complementarity of Variable Renewable Energy Sources consolidates current developments on the subject, addressing all

technical advances, presenting new mapping results, and bringing new insights for the continuation of research and implementation on this fascinating topic. By answering questions such as How can complementarity be used in the operation of large interconnected systems?, What is the real applicability potential of energetic complementarity?, and How will it impact energy generation systems?, this title is useful for all researchers, academic and students investigating the topic of renewable energy complementarity in systems. In just over a decade, the subject of 'energy complementarity' has experienced a growing presence and understanding by researchers and managers of energy resources looking to enhance energy systems. Early research proposed methods to quantify complementarity, the effects of complementarity on performance of hybrid systems, and how to identify and map complementarity between solar energy, wind energy and hydroelectric energy systems. Includes chapter maps to visualize system performance under different complementarity indexes Addresses complementarity in the operation of large and small to medium-sized hybrid systems Provides methods for determining complementarity between various energy sources This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact. The primary concern of environmental sustainability is to: (i) reduce use of physical and depletable resources; (ii) recycle and use renewable resources; (iii) redesign the production process to eliminate the production of toxic materials and protect the environment. Biochar, as a renewable material, can be produced from various sustainable biomass feedstocks through pyrolysis technologies. Biochar Towards Sustainable Environment highlights the contribution of biochar to environmental sustainability. The book provides a detailed overview of the sustainable biomass wastes feedstocks and different technologies for biochar production, and its sustainable applications in various aspects. Includes sustainable production and activation of biochar from various biowastes Describes multiple applications of biochar for sustainable environment Covers sustainable assessments of the biochar production and application Nanoparticle-Based Polymer Composites discusses recent advancements on the synthesis, processing, characterization and applications of this new class of hybrid materials. Chapters cover recycling and lifecycle assessment, with contributions from leading researchers in industry, academics, the government and private research institutes from across the globe. As nanoparticle-based polymer composites are now replacing traditional polymer composites in a broad range of applications such as fuel cells, electronic and biomedical devices, this book presents the latest advancements in the field. Studies have

shown that incorporating metal nanoparticles in polymer matrices can improve their mechanical, thermal, electrical and barrier properties. The unique combination of these properties makes this new class of materials suitable for a broad range of different and advanced applications. Features recent advancements on the synthesis, processing and characterization of nanoparticle-based polymer composites Discusses recycling and lifecycle assessment Highly application-orientated, with contributions from leading international researchers in industry, academia, the government and private research institutes This book highlights current efforts and research on waste management, processing and valorization, particularly in Asia-Africa countries. Chapters 1-2 highlight the overview of plastic waste management and the production of waste plastic oil (WPO). Chapters 3-5 discuss the landfill characterization and application of incineration and composting for waste processing. A new achievement in adsorbent production is highlighted in Chapters 6 and 7 while Chapters 10 and 11 focus on sewage characteristic and its utilization using microalgae. Enzyme production using waste is covered by Chapters 10-12. Chapter 13-14 dedicated to the advances in production of bioenergy. The book concludes with a discussion on life cycle analysis for solid waste management (Chapter 15). With immense consumption of resources, increased global warming, and environmental pollution, the energy sector has inevitably embraced sustainability. Countries are releasing plans and programs to shift their fossil fuel-dependent energy sectors into clean energy sectors, and projections show that renewable energy will be a significant part of nations' energy mixes in the near future. Optimization and decision-making techniques have been commonly used in the energy sector as problems encountered in this sector are complex and therefore need comprehensive techniques to solve them. With the uncertainty and high-cost issues of renewable resources, the complexity increases in the sector and requires optimization and decision-making techniques. Optimization and Decision-Making in the Renewable Energy Industry analyzes renewable energy sources using current mathematical methods and techniques and provides advanced knowledge on key opportunities and challenges. The book discusses current and trending mathematical methods, tests their validity and verification, and considers their practical application in the field. Covering topics such as urban sustainability and renewable energy systems, this reference work is ideal for practitioners, academicians, industry professionals, researchers, scholars, instructors, and students. Biofuel production from waste biomass is increasingly being focused on due to several advantages of lignocellulosic biomass, such as availability in abundance from several sources, cost-effectiveness, little competition with food sources, etc. This new volume, Sustainable Biofuel and Biomass: Advances and Impacts, provides an abundance of in-depth information on many types of biofuels from lignocellulosic biomass and also describes biomass sources and their availability for biofuel production. This compiled book features 17 chapters that discuss the different aspects of biofuel production from lignocellulosic biomass. Chapters deal with different types lipase-mediated biofuel production,

biohydrogen production from lignocellulosic biomass, triacylglycerol biosynthetic pathways in plants for biofuel applications, the industrial prospects of lignocellulosic bioethanol production, biofuel cell production, potential feedstocks availability for bioethanol production, biofuel production from algal biomass, and many other important topics. This book presents various methods for sustainability assessment of energy systems, under various different conditions and scenarios. It answers the questions of how to measure the sustainability of energy systems by adopting appropriate metrics and methods. This book provides readers with a comprehensive view of the frontiers of sustainability assessment methods for energy system analysis. It presents various methodologies, allowing readers to understand: the complete metrics for sustainability assessment; life cycle thinking for sustainability assessment of energy systems; and the advanced sustainability assessment methods for energy systems. This book is of interest to researchers, engineers, decision makers, and postgraduate students within the field of energy systems, sustainability, and decision analysis. Alkali-activated materials, including geopolymers, are being studied at an increasing pace for various high-value applications. The main drivers for this emerging interest include the low-energy, low-cost, and readily up-scalable manufacturing process; the possibility to utilize industrial wastes and by-products as raw materials; and beneficial material properties comparable to conventional materials. It has already been verified that alkali-activated materials are very versatile in environmental technology applications for pollution control. The current research in the field focuses on advanced manufacturing methods, material properties, and applications, for example, additive manufacturing, modification of surface chemistry, CO₂ capture, and green catalysis. Alkali-Activated Materials in Environmental Technology Applications discusses what novel possibilities alkali-activated materials provide in comparison to conventional materials (such as high-temperature ceramics, synthetic zeolites, or organic polymers). The specific environmental applications that are covered include water and wastewater treatment, air pollution control, stabilization/solidification of hazardous wastes, and catalysts in chemical processes. In addition, preparation methods, material properties, and the chemistry of alkali-activated materials are revisited from the viewpoint of environmental technology applications. This book also discusses how well alkali-activated materials fit under the concepts of green chemistry and circular economy and how the life cycle analysis of these materials compares to conventional materials. Provides detailed information on preparation methods, material properties, and chemistry of alkali-activated materials for environmental technology applications Covers applications in water and wastewater treatment, air pollution control, solidification/stabilization of hazardous wastes; antimicrobial materials, and catalysis Discussed the performance of alkali-activated materials against conventional materials such as high-temperature ceramics, synthetic zeolites, or plastics Features case studies and bench/pilot-scale studies This book discusses major technological advances in the treatment and re-use of wastewater. Its focus is on

both novel treatment strategies and the modifications and adaptations of conventional processes to optimize the treatment of a complex variety of pollutants, including organic matter, chemicals and micropollutants in different water resources, as well as the integration of water treatment with bioelectricity production. Written by leading researchers in the field, it will be of interest to a wide range of researchers in both industry and academia. This publication examines the opportunities and challenges, for business and government, associated with technologies bringing about the “next production revolution”. These include a variety of digital technologies (e.g. the Internet of Things and advanced robotics), industrial... This book presents various methodologies for determining the ecological footprint, carbon footprint, water footprint, nitrogen footprint, and life cycle environment impacts and illustrates these methodologies through various applications. In particular, it systematically and comprehensively introduces the concepts and tools of the ‘footprint family’ and discusses their applications in energy and industrial systems. The book begins by providing an overview of the effects of the economic growth dynamics on ecological footprint and then presents the definitions, concepts, calculation methods, and applications of the various footprints. The unique characteristic of this book is that it demonstrates the applications of various footprints in different systems including economic system, ecological system, beef production system, cropping system, building, food chain, sugarcane bioproducts, and the Belt and Road Initiative. Providing both background theory and practical advice, the book is of interest to energy and environmental researchers, graduate students, and engineers. This is the first book to present the idea of using Industry 4.0 and smart manufacturing in the microalgae industry for environmental biotechnology. It provides the latest developments on microalgae for use in environmental biotechnology, explains process analysis from an engineering point of view, and discusses the transition to smart manufacturing and how state of the art technologies can be incorporated. It covers applications, technologies, challenges, and future perspectives.

- Showcases how Industry 4.0 can be applied in algae industry
- Covers new ideas generated from Industry 4.0 for Industrial Internet of Things (IIoT)
- Demonstrates new technologies invented to cater to Industry 4.0 in microalgae

Features worked examples related to biological systems Aimed at chemical engineers, bioengineers, and environmental engineers, this is an essential resource for researchers, academics, and industry professionals in the microalgae biotechnology field. This book reviews the assessment of industrial biotechnology products and processes from a sustainable perspective. Industrial Biotechnology is a comparably young field which comes along with high expectations with regard to sustainability issues. These stem from the promise of reducing greenhouse gas emissions and replacing fossil resources in the near or later future and using green technology, i.e. more environmentally friendly technologies. The intended economic, ecological and social benefits, however, need to be proven, resulting in a variety of challenges, both from a methodological and application point of view. In this book, specific assessment and application topics of industrial biotechnology are addressed, highlighting challenges and solutions for both developers and users of assessment methods. In twelve chapters, experts in their particular fields define the scope, characterize industrial biotechnology and show in their contributions the state of the art, challenges and prospects of assessing industrial biotechnology products and processes. The chapter 'Societal and Ethical Aspects of Industrial Biotechnology' of this book is available open access under a CC BY 4.0 license at link.springer.com Assisted Phytoremediation covers a wide range of uses of plants for remediation of environmental pollutants. It includes coverage of such techniques as root engineering, transgenic plants, increasing the biomass, use of genetic engineering and genome editing technology for rapid phytoremediation of pollutants. In order to improve the efficiency of plant remediation, genetic engineering plays a vital role in the overexpression of genes or gene clusters, which are responsible for degradation and uptake of pollutants. The book presents state-of-the-art techniques of assisted phytoremediation to better manage soil and water pollution in large amounts. This book is a valuable resource for researchers, students, and engineers in environmental science and bioengineering, with case studies and state-of-the-art research from eminent global scientists. This book serves as an excellent basis from which scientific knowledge can grow and widen in the field of environmental remediation. Provides a clear picture of how to design,

tune, and implement assisted phytoremediation techniques Offers a comprehensive analysis of current perspective and state-of-the-art applications of assisted phytoremediation Introduces the potential of genetic engineering as a rapid, cost-effective technology for environmental remediation using plants For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. The textile industry is focused in its search for alternative green fibres with the aim of providing high-quality products which are fully recyclable and biodegradable. Natural textile materials from renewable sources play an increasingly important role in the industry due to their unique properties and functionality over synthetic fibres, as well as their sustainability. Fundamentals of Natural Fibres and Textiles covers all the fundamental and basic information about natural fibres and textiles. Many different fibres are covered from their origin, through processing, properties, and applications. The latest methods for characterisation and testing of natural fibres are all addressed with reference to cutting-edge industry trends. This uniquely comprehensive approach to the topic provides the ideal entry point to natural fibres for textile and clothing scientists, engineers, designers, researchers, students, and manufacturers of such products. Explains the characteristics of natural fibres to show how they compare to synthetic fibres for a range of purposes Provides an overview of the environmental impact of the processing of fibres and how this creates industrial waste Covers a wide range of natural fibres in detail, from traditional silk and wool to electrospun biopolymers Provides the latest updates on technologies for designing natural fibres and applying them to the development of new products For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

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