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Copper and Gold Phytoremediation Fungi Bio-prospects in Sustainable Agriculture, Environment and Nano-technology Essiac Iron Ore Metagenomics to Bioremediation Coal and Coalbed Gas Intermediate Accounting, Volume 1 Bioreduction of Selenite and Tellurite by Phanerochaete Chrysosporium Biomass for Sustainable Applications Environment at Crossroads Challenges and Green Solutions Intermediate Accounting Advanced Accounting Porous Carbons – Hyperbranched Polymers – Polymer Solvation Char and Carbon Materials Derived from Biomass Microbes for Sustainable Development and Bioremediation Biochar Application Fantasms Accounting Made Simple Motivational Interviewing The Motherless Oven Information Technology Auditing

Microbes for Sustainable Development and Bioremediation Apr 17 2020 Microbes are the predominant form of life on the planet due to their broad range of adaptation and versatile nutritional behavior. The ability of some microbes to inhabit hostile environment incompatible with most forms of life means that their habitat defines the extent of the biosphere and delineates the barrier between the biosphere and geosphere. The direct and indirect role of microbes that include bacteria, fungi, actinomycetes, viruses, mycoplasma, and protozoans are very much important in development of modern human society for food, drugs, textiles, agriculture, and environment. Furthermore, microorganisms and their enzyme system are responsible for the degradation of various organic matters. Microbes for Sustainable Development and Bioremediation emphasizes the role of microbes for sustainable development of ecosystem. Environmental microbiology role in biogeochemical cycle and bioremediation of environmental

waste is major theme, which comprises the following aspects: Bacterial phytoextraction mechanism of heavy metals by native hyperaccumulator plants from complex waste-contaminated site for eco-restoration Role of microbial enzyme for eco-friendly recycling of industrial waste Field-scale remediation of crude oil–contaminated desert soil and treatment technology Microbial technology for metal recovery from e-waste printed circuit board Impact of genomic data on sustainability of ecosystem Methane monooxygenases: their regulations and applications Role of microbes in environmental sustainability and food preservation This book will be directly beneficial to researchers and classroom students, in areas of biotechnology, environmental microbiology, molecular biology, and environmental engineering with specialized collection of cutting-edge knowledge.

Hospitality Financial Accounting Feb 08 2022 Updated with the latest developments in the accounting and hospitality fields, Hospitality Financial Accounting, Second Edition covers the basics of financial accounting and then walks you through analyzing financial statements and dealing with the daily issues you'll face on the job. In this Second Edition, the authors have provided engaging new coverage and features that includes new case studies, an expanded section on ethics, new "Accounting in Action" vignettes, applied exercises, and new coverage of casinos, spas, and purveyors.

Accounting Made Simple Jan 15 2020 Accounting by Joe Booth is a developer's guide to basic accounting. Written with business app development in mind, Booth discusses some of the most common accounting processes, including assets, multiple accounts, journaling, posting, inventory, and payroll. An appendix includes SQL code examples to get you started with several

basic accounting transactions. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

Chemistry, a Sustainable Bridge from Waste to Materials for Energy and Environment Mar 09 2022

Financial Accounting and Reporting Jan 07 2022 Financial Accounting and Reporting is the most up to date text on the market. Now fully updated in its fourteenth edition, it includes extensive coverage of International Accounting Standards (IAS) and International Financial Reporting Standards (IFRS). This market-leading text offers students a clear, well-structured and comprehensive treatment of the subject. Supported by illustrations and exercises, the book provides a strong balance of theoretical and conceptual coverage. Students using this book will gain the knowledge and skills to help them apply current standards, and critically appraise the underlying concepts and financial reporting methods.

Microbial Technology for Sustainable E-waste Management Jul 13 2022 This book, besides discussing challenges and opportunities, will reveal the microbe-metal interactions and strategies for e-waste remediation in different ecosystems. It will unveil the recent biotechnological advancement and microbiological approach to sustainable biorecycling of e-waste such as

bioleaching for heavy metal extraction, valorization of precious metal, biodegradation of e-plastic, the role of the diverse microbial community in e-waste remediation, genetically engineered microbes for e-waste management, the importance of microbial exopolysaccharides in metal biosorption, next-generation technologies, omics-based technologies etc. It also holds the promise to discuss the conservation, utilization and cataloging indigenous microbes in e-waste-polluted niches and promising hybrid technology for sustainable e-waste management. Revolution in the area of information technology and communication is constantly evolving due to scientific research and development. Concurrently, the production of new electrical and electronic equipment also thus uplifting in this era of revolution. These technological advancements certainly have problematic consequences which is the rise of huge amounts of electronic obsoletes or electronic waste (e-waste). Improper management of both hazardous and nonhazardous substances of e-waste led to a major concern in our digital society and environment. Therefore, a sustainable approach including microbial candidates to tackle e-waste is the need of the hour. Nevertheless, the continuous demand for new-generation gadgets and electronics set this high-tech evolution to a new frontier in the last few years. With this continuing trend of technological development, e-waste is expanding exponentially worldwide. In the year of 2019, the worldwide generation of e-waste was approximately 53.6 Mt, of which only about 17.4% of e-waste was collected and recycled, and the other 82.6% was not even documented. E-waste contains various heterogeneous waste complexes such as metals (60%), blends of many polymers (30%) and halogenated compounds, radioactive elements and other pollutants (10%), respectively. The sustainable, efficient, and economic management of e-waste

is thus, a challenging task today and in the coming decades. Conventional techniques such as the use of chemicals, incineration and informal ways of e-waste dismantling trigger serious health risks and contamination to the human population and environment, respectively due to the liberation of toxic and hazardous substances from the waste. In this context, bio-candidates especially microorganisms could be sharp-edged biological recycling tools to manage e-waste sustainably. As microbes are omnipresent and diverse in their physiology and functional aspects, they offer a wide range of bioremediation.

Electronic Waste Management and Treatment Technology Sep 15 2022 Electronic Waste Management and Treatment Technology applies the latest research for designing waste treatment and disposal strategies. Written for researchers who are exploring this emerging topic, the book begins with a short, but rigorous, discussion of electric waste management that outlines common hazardous materials. such as mercury, lead, silver and flame-retardants. The book also discusses the fate of metals contained in waste electrical and electronic equipment in municipal waste treatment. Materials and methods for the remediation, recycling and treatment of plastic waste collected from waste electrical and electronic equipment (WEEE) are also covered. Finally, the book covers the depollution benchmarks for capacitors, batteries and printed circuit boards from waste electrical and electronic equipment (WEEE) and the recovery of waste printed circuit boards through pyrometallurgy. Describes depollution benchmarks for capacitors, batteries and printed wiring boards from waste electronics Covers metals contained in waste electrical and electronic equipment in municipal waste Provides tactics for the recycling of mixed plastic waste from electrical and electronic equipment

Advanced Accounting Jul 21 2020 Advanced Accounting delivers an in-depth, comprehensive introduction to advanced accounting theory and application, using actual business examples and relevant news stories to demonstrate how core principles translate into real-world business scenarios. Clearly defined and logically organized Learning Objectives aid in student comprehension, while highlighted Related Concepts illustrate how individual concepts fit into the larger picture. Short answer questions throughout the chapter allow students to test their knowledge before reaching the more in-depth end-of-chapter questions, promoting a deeper understanding of both technical and conceptual aspects of the field. Written by active accounting researchers, this text brings clarity and flexibility to the central ideas underlying business combinations, consolidated financial statements, foreign currency transactions, partnerships, non-profit accounting and more. This new Seventh Edition has been updated to reflect the latest changes to FASB and GASB standards, allowing students to build a skill set based on up-to-date practices. With a student-oriented pedagogy designed to enhance comprehension, promote engagement, and build real-world understanding, this user-friendly book provides an essential foundation in current advanced accounting methods and standards.

TMS 2019 148th Annual Meeting & Exhibition Supplemental Proceedings Nov 17 2022 This collection features papers presented at the 148th Annual Meeting & Exhibition of The Minerals, Metals & Materials Society.

Fundamental Issues in Control of Carbon Gasification Reactivity Oct 04 2021 During the last decade there has been a renewed interest in under standing from a fundamental point of view the gasification of carbon. Basi cally there are two major issues in controlling the reactivity of

carbon: i) reduction of the gasification rate of carbon materials in hostile environment ii) increase of the gasification rate in order to utilize carbonaceous compounds more effectively. Although these two objectives look somewhat contradictory, they are part of the general topics of understanding gasification reactivity of carbon. Refractory applications of carbon in furnace linings, seals and vanes, as well as the use of carbon-carbon or carbon-ceramic composites in struc tures able to withstand corrosion at high temperature require a better understanding of the fundamentals involved in carbon-oxidizing gas (02' CO , H 0) reactions. Furthermore a great interest of aluminium producers 2 2 is 10 extending the lifetime of carbon electrodes in alumina electrolysis which primarily depends on reducing their consumption rates by air or carbon dioxide. Proper control of gasification reactions is also of prime importance in manufacturing carbonaceous adsorbents like granular activated carbon clothes of high adsorption characteristics. The balance between increase of porosity and decrease in mechanical strength during activation is critical for developing new porous types of carbon materials in particular for carbon clothes and this can only be achieved by a careful control of the gasification reaction.

6th International Symposium on High-Temperature Metallurgical Processing Nov 05 2021 The analysis, development, and/or operation of high temperature processes that involve the production of ferrous and nonferrous metals, alloys, and refractory and ceramic materials are covered in the book. The innovative methods for achieving impurity segregation and removal, by-product recovery, waste minimization, and/or energy efficiency are also involved. Eight themes are presented: 1: High Efficiency New Metallurgical Process and Technology 2: Fundamental Research of Metallurgical Process 3: Alloys and Materials Preparation 4: Direct

Reduction and Smelting Reduction 5: Coking, New Energy and Environment 6: Utilization of Solid Slag/Wastes and Complex Ores 7: Characterization of High Temperature Metallurgical Process

Electronic Waste Dec 18 2022 This book presents an overview of the characterization of electronic waste. In addition, processing techniques for the recovery of metals, polymers and ceramics are described. This book serves as a source of information and as an educational technical reference for practicing scientists and engineers, as well as for students.

Intermediate Accounting, Volume 1 Dec 26 2020 The Gateway to the Profession 99% of surveyed practicing accountants feel that Kieso, Weygandt, and Warfield's Intermediate Accounting helped prepare them for success in professional practice. 100% would recommend the text to someone currently studying for an accounting degree. 80% said they referred to their copy when they first entered professional practice. Professionals who learned accounting from Intermediate Accounting find themselves well prepared to enter the workplace. So well prepared in fact, that many keep their copy of the text to refer to again and again. Why is this text so essential for professional success? * Currency--This 12th edition of Intermediate Accounting reflects the state-of-the-art in accounting today. The text is kept current with the Intermediate Accounting Newsletter, a periodical for users of the text that spotlights the very latest developments and their implications. * Real-world examples and illustrations--Numerous examples from real corporations help you understand exactly how professionals apply accounting principles and techniques. International Insight notes compare accounting practices in other countries. * Hands-on practice--This 12th edition features Professional Simulation

problems, modeled on the new computerized exam. In addition, new accounting research exercises help you practice using the Financial Accounting Research Database System (FARS). * Comprehensive and clear explanations of concepts--The authors' clear writing style and logical organization help you understand the material. Make Kieso your gateway to the profession!
Biohydrometallurgical Recycling of Metals from Industrial Wastes Jan 19 2023 Although many available metal recycling methods are simple and fast, they are also expensive and cause environmental pollution. Biohydrometallurgical processing of metals offers an alternative to overcome these issues, as the use of biological means not only helps to conserve dwindling ore resources but also fulfills the need for the unambiguous need to extract metals in nonpolluting, low-energy, and low-cost way. This book covers biohydrometallurgy and its application in the recovery of metals from secondary sources like wastes. It aims to provide readers with a comprehensive overview of different wastes for metal recovery and biological treatment methods that are both environmentally friendly and economically viable.
Microbial Diversity in Ecosystem Sustainability and Biotechnological Applications Oct 16 2022 This book discusses microbial diversity in various habitats and environments, its role in ecosystem maintenance, and its potential applications (e.g. biofertilizers, biocatalysts, antibiotics, other bioactive compounds, exopolysaccharides etc.). The respective chapters, all contributed by renowned experts, offer cutting-edge information in the fields of microbial ecology and biogeography. The book explains the reasons behind the occurrence of various biogeographies and highlights recent tools (e.g. metagenomics) that can aid in biogeography studies by providing information on nucleic acid sequence data, thereby directly identifying microorganisms in

various habitats and environments. In turn, the book describes how human intervention results in depletion of biodiversity, and how numerous hotspots are now losing their endemic biodiversity, resulting in the loss of many ecologically important microorganisms. In closing, the book underscores the importance of microbial diversity for sustainable ecosystems.
Intermediate Accounting Aug 22 2020
Plasma Remediation Technology for Environmental Protection Dec 06 2021 This book introduces a new technology for environmental protection, namely plasma cleaning. It brings together technological advances and research on plasma generators and their application in environmental science and engineering, including contaminated soil remediation, waste water degradation, metal recovery from waste solution, sterilization and polluted air remediation. It provides a balanced and comprehensive discussion of the core principles, novel plasma reactors and diagnostics, and state-of-the-art environmental applications of plasma. As such, it represents a valuable reference guide for scientists, engineers and graduate students in the fields of environmental science and plasma physics.
The Science and Technology of Rubber May 11 2022 The 4e of The Science and Technology of Rubber provides a broad survey of elastomers with special emphasis on materials with a rubber-like elasticity. As in previous editions, the emphasis remains on a unified treatment of the material, exploring chemical aspects such as elastomer synthesis and curing, through recent theoretical developments and characterization of equilibrium and dynamic properties, to the final applications of rubber, including tire engineering and manufacturing. Updated material stresses the continuous relationship between ongoing research in synthesis, physics, structure and

mechanics of rubber technology and industrial applications. Special attention is paid to recent advances in rubber-like elasticity theory and new processing techniques for elastomers. Exciting new developments in green tire manufacturing and tire recycling are covered. Provides a complete survey of elastomers for engineers and researchers in a unified treatment: from chemical aspects like elastomer synthesis and curing to the final applications of rubber, including tire engineering and manufacturing Contains important updates to several chapters, including elastomer synthesis, characterization, viscoelastic behavior, rheology, reinforcement, tire engineering, and recycling Includes a new chapter on the burgeoning field of bioelastomers Fantasms Feb 14 2020 It's Danny Ray, "the best dang rodeo cowboy in Oklahoma," to the rescue once again. King Krystal of Elidor's beautiful daughter, Princess Amber, has been kidnapped by the evil Fantasms--monstrous beasts whose sole purpose is to rule the magical kingdom of Elidor and to spread sorrow and darkness throughout the land. But not if Danny Ray and his eccentric group of friends have anything to do with it! Imagine a world with seas of polished black and white marble squares sailed upon by immense chess pieces hundreds of feet high: rooks, bishops and queens powered by tiny furry Tantarrabobs and Zanoomies. Imagine this is the battleground where Danny Ray, Tuk (a hellwain devil), KarooKachoo (a dragonfly princess), Prince Blues, the Sultana Sumferi Sar, Captain Quigglewigg, Hoodie Crow and the White Lady must rescue Princess Amber and save the kingdom of Elidor from eternal darkness. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied. Green Chemistry for Dyes Removal from Waste Water Aug 14 2022 The use of synthetic chemical dyes in various industrialprocesses, including paper and pulp manufacturing, plastics,

dyeingof cloth, leather treatment and printing, has increasedconsiderably over the last few years, resulting in the release ofdye-containing industrial effluents into the soil and aquatic ecosystems. The textile industry generates high-pollutingwastewaters and their treatment is a very serious problem due tohigh total dissolved solids (TDS), presence of toxic heavy metals,and the non-biodegradable nature of the dyestuffs in theeffluent. The chapters in this book provide an overview of the problem andits solution from different angles. These problems and solutionsare presented in a genuinely holistic way by world-renownedresearchers. Discussed are various promising techniques to removedyes, including the use of nanotechnology, ultrasound, microwave,catalysts, biosorption, enzymatic treatments, advanced oxidationprocesses, etc., all of which are “green.” Green Chemistry for Dyes Removal from Wastewatercomprehensively discusses: Different types of dyes, their working and methodologies andvarious physical, chemical and biological treatment methodsemployed Application of advanced oxidation processes (AOPs) in dyeremoval whereby highly reactive hydroxyl radicals are generatedchemically, photochemically and/or by radiolytic/ sonolytic means.The potential of ultrasound as an AOP is discussed as well. Nanotechnology in the treatment of dye removal types ofadsorbents for removal of toxic pollutants from aquaticsystems Photocatalytic oxidation process for dye degradation under bothUV and visible light, application of solar light and solarphotoreactor in dye degradation

Phytoremediation Jul 01 2021 This text details the plant-assisted remediation method, “phytoremediation”, which involves the interaction of plant roots and associated rhizospheric microorganisms for the remediation of soil contaminated with high levels of metals, pesticides,

solvents, radionuclides, explosives, crude oil, organic compounds and various other contaminants. Each chapter highlights and compares the beneficial and economical alternatives of phytoremediation to currently practiced soil removal and burial practices. This book covers state of the art approaches in Phytoremediation written by leading and eminent scientists from around the globe. Phytoremediation: Management of Environmental Contaminants, Volume 1 supplies its readers with a multidisciplinary understanding in the principal and practical approaches of phytoremediation from laboratory research to field application.

Metagenomics to Bioremediation Feb 25 2021 Metagenomics to Bioremediation: Applications, Cutting Edge Tools, and Future Outlook provides detailed insight into metagenomics approaches to bioremediation in a comprehensive manner, thus enabling the analysis of microbial behavior at a community level under different environmental stresses during degradation and detoxification of environmental pollutants. The book summarizes each and all aspects of metagenomics applications to bioremediation, helping readers overcome the lack of updated information on advancement in microbial ecology dealing with pollution abatement. Users will find insight not only on the fundamentals of metagenomics and bioremediation, but also on recent trends and future expectations. This book will appeal to readers from diverse backgrounds in biology, chemistry and life sciences. Reviews recently developed metagenomics approaches/strategies/ technologies to solve five major trends in environmental clean-up, including nutrient removal and resource recovery, organometallic compounds detoxification, energy-saving and production, sustainability and community involvement Compiles authoritative information on recent advances in microbial biotechnological approaches, including the latest descriptions of the

relationship between microbes and the environment Describes the knowledge gaps and future directions in the field of bioremediation of environmental contaminants Covers underlying microbial mechanisms with metabolic pathways for degradation and detoxification of emerging organic and inorganic contaminants discharged in environment

Biochar Application Mar 17 2020 Biochar Application: Essential Soil Microbial Ecology outlines the cutting-edge research on the interactions of complex microbial populations and their functional, structural, and compositional dynamics, as well as the microbial ecology of biochar application to soil, the use of different phyto-chemical analyses, possibilities for future research, and recommendations for climate change policy. Biochar, or charcoal produced from plant matter and applied to soil, has become increasingly recognized as having the potential to address multiple contemporary concerns, such as agricultural productivity and contaminated ecosystem amelioration, primarily by removing carbon dioxide from the atmosphere and improving soil functions. Biochar Application is the first reference to offer a complete assessment of the various impacts of biochar on soil and ecosystems, and includes chapters analyzing all aspects of biochar technology and application to soil, from ecogenomic analyses and application ratios to nutrient cycling and next generation sequencing. Written by a team of international authors with interdisciplinary knowledge of biochar, this reference will provide a platform where collaborating teams can find a common resource to establish outcomes and identify future research needs throughout the world. Includes multiple tables and figures per chapter to aid in analysis and understanding Includes a comprehensive table of the methods used within the contents, ecosystems, contaminants, future research, and application opportunities explored in

the book Includes knowledge gaps and directions of future research to stimulate further discussion in the field and in climate change policy Outlines the latest research on the interactions of complex microbial populations and their functional, structural, and compositional dynamics Offers an assessment of the impacts of biochar on soil and ecosystems

Environment at Crossroads Challenges and Green Solutions Sep 22 2020 The global environment has significantly changed due to a number of factors such as industrial pollution, expansion of agricultural land way beyond the fringe forest zones, destruction of virgin forests, loss of quality agricultural lands due to soil erosion, loss of global wildlife and biodiversity, climate change, global warming, devastating forest fires, floods, draughts, melting of glaciers to mention a few. Human or anthropogenic impacts are in turn devastating the planet with our attention being shifted only to the shinning aspect of our civilizations. The most alarming fact about this hidden factor is that they are all directly or indirectly impacted by human activities in some way or other. The present work, Environment at Crossroads deals with various environmental problems like climate change, global warming, food security, bioremediation of waste, oil spills, and problems of heavy metal toxicity, control strategies like use of gene therapy, conservation of mangroves, revival of river Vishwamitri and role of plant and animals in biodiversity conservation is discussed.

Fungi Bio-prospects in Sustainable Agriculture, Environment and Nano-technology May 31 2021 Fungi bio-prospects in sustainable agriculture, environment and nanotechnology is a three-volume series that has been designed to explore the huge potential of the many diverse applications of fungi to human life. The series unveils the latest developments and scientific

advances in the study of the biodiversity of fungi, extremophilic fungi, and fungal secondary metabolites and enzymes, while also presenting cutting-edge molecular tools used to study fungi. Readers will learn all about the recent progress and future potential applications of fungi in agriculture, environmental remediation, industry, food safety, medicine, and nanotechnology. Volume 1 will cover the biodiversity of fungi and the associated biopotential applications. This volume offers insights into both basic and advanced biotechnological applications in human welfare and sustainable agriculture. The chapters shed light on the different roles of fungi as a bio-fertilizer, a bio-control agent, and a component of microbial inoculants. They also focus on the various applications of fungi in bio-fuel production, nano-technology, and in the management of abiotic stresses such as drought, salinity, and metal toxicity. Provides a deep understanding of fungi and summarizes fungi’s various applications in the fields of microbiology and sustainable agriculture Describes the role of fungal inoculants as biocontrol agents, and in improved stress tolerance and growth of plants

Iron Ore Mar 29 2021 Iron Ore: Mineralogy, Processing and Environmental Sustainability, Second Edition covers all aspects surrounding the second most important commodity behind oil. As an essential input for the production of crude steel, iron ore feeds the world's largest trillion-dollar-a-year metal market and is the backbone of the global infrastructure. The book explores new ore types and the development of more efficient processes/technologies to minimize environmental footprints. This new edition includes all new case studies and technologies, along with new chapters on the chemical analysis of iron ore, thermal and dry beneficiation of iron ore, and discussions of alternative iron making technologies. In addition, information on recycling

solid wastes and P-bearing slag generated in steel mills, sustainable mining, and low emission iron making technologies from regional perspectives, particularly Europe and Japan, are included. This work will be a valuable resource for anyone involved in the iron ore industry. Provides an overall view of the entire value chain, from iron ore to metal Includes specific information on process/stage/operation in the value chain Discusses challenges and developments, along with future trends in the iron ore and steel industries Incorporates new, sustainable mining techniques

Coal and Coalbed Gas Jan 27 2021 Bridging the gap in expertise between coal and coalbed gas, subfields in which opportunities for cross training have been nonexistent, Coal and Coalbed Gas sets the standard for publishing in these areas. This book treats coal and coalbed gas as mutually inclusive commodities in terms of their interrelated origin, accumulation, composition, distribution, generation, and development, providing a balanced understanding of this energy mix. Currently considered a non-renewable energy resource, coalbed gas, or coalbed methane, is a form of natural gas extracted from coal beds. In recent years, countries have begun to seek and exploit coal for its clean gas energy in an effort to alleviate environmental issues that come with coal use, making a book on this topic particularly timely. This volume takes into account processes of coalification, gasification, and storage and reservoir characterization and evaluation and looks at water management and environmental impacts as well. Covers environmental issues in the development of coalbed gas Includes case studies, field guides and data, examples, and analytical procedures from previous studies and investigations Accessible by a large multidisciplinary market by one of the world's foremost experts on the topic

Char and Carbon Materials Derived from Biomass May 19 2020 Char and Carbon Materials Derived from Biomass: Production, Characterization and Applications provides an overview of biomass char production methods (pyrolysis, hydrothermal carbonization, etc.), along with the characterization techniques typically used (Scanning Electronic Microscopy, X-Ray Fluorescence, Nitrogen adsorption, etc.) In addition, the book includes a discussion of the various properties of biomass chars and their suitable recovery processes, concluding with a demonstration of applications. As biomass can be converted to energy, biofuels and bioproducts via thermochemical conversion processes, such as combustion, pyrolysis and gasification, this book is ideal for professionals in energy production and storage fields, as well as professionals in waste treatment, gas treatment, and more. Provides a discussion of sources of biomass feedstocks, such as agricultural, woody plants and food processing residue Discusses the various production processes of biomass chars, including pyrolysis and hydrothermal carbonization Explores various applications of biomass chars within different industries, including energy and agronomy

Motivational Interviewing Dec 14 2019 Since the initial publication of this classic text, motivational interviewing (MI) has been used by countless clinicians in diverse settings. Theory and methods have evolved apace, reflecting new knowledge on the process of behavior change, a growing body of outcome research, and the development of new applications within and beyond the addictions field. Including 25 nearly all-new chapters, this revised and expanded second edition now brings MI practitioners and trainees fully up to date. William R. Miller and Stephen Rollnick explain how to work through ambivalence to facilitate change, present detailed

guidelines for using their approach with a variety of clinical populations, and reflect on the process of learning MI. Chapters contributed by other leading experts then address such special topics as MI and the stages-of-change model; using the approach with groups, couples, and adolescents; and applications to general medical care, health promotion, and criminal justice settings.

Biomass for Sustainable Applications Oct 24 2020 Sustainable sources of energy and a supply of good quality water are two major challenges facing modern societies across the globe. Biomass from cultivated plants may be used to generate energy, but at the cost of contaminated surface waters from pesticide and fertiliser use. This two-volume set examines the potential use of biomass as both a source of sustainable energy and a resource to tackle contaminated soils and wastewaters. Consideration is given to non-food crops, bacteria ,and fungi as sources of biomass and the book enables the reader to identify the best local bioresources according to the desired application. With contributions from across the globe, this is an essential guide to meeting the demand for energy and pollution remediation by exploiting local and renewable resources. The example scenarios given will inspirational to policy makers and local officers, while chemical engineers and environmental scientists in both academia and industry will benefit from the comprehensive review of current thinking and application.

The Motherless Oven Nov 12 2019 Scarper's deathday is just three weeks away, and he clings to the mundane repetition of his life at home and high school for comfort.

Bioreduction of Selenite and Tellurite by Phanerochaete Chrysosporium Nov 24 2020 Selenium (Se) and tellurium (Te) are metalloids of commercial interest due to their physicochemical

properties. The water soluble oxyanions of these elements (selenite, selenate, tellurite and tellurate) exhibit high toxicities; hence, their release in the environment is of great concern. This study demonstrates the potential use of fungi as Se- and Te-reducing organisms. The response of Phanerochaete chrysosporium to the presence of selenite and tellurite was evaluated, as well as its potential application in wastewater treatment and production of nanoparticles. Growth stress and morphological changes were induced in P. chrysosoporium when exposed to selenite and tellurite. Synthesis of Se0 and Te0 nanoparticles entrapped in the fungal biomass was observed, as well as the formation of unique Se0-Te0 nanocomposites when the fungus was cultivated concurrently with Se and Te. The response of P. chrysosporium to selenite exposure was investigated in different modes of fungal growth (pellets and biofilm). A bioprocess for selenite removal and Se0 nanoparticles recovery using an up-flow fungal pelleted reactor was developed. 70% selenite removal (10 mg Se L-1 d-1) was achieved under continuous mode. The use of Se0 nanoparticles immobilized in P. chrysosporium pellets as a new sorbent material for the removal of heavy metals from wastewater was demonstrated.

Adventures in Kavosava Apr 10 2022 Four brothers embark on a journey,takes them to a world that they have never heard of before. They become more and more intrigued, especially when they find that the citizens of Kavosava already know who they are, and treat them like royalty. After travelling to different parts of the land, they realize they have returned to Kavosava to assist the people in ridding themselves of the evil Lord Whipstein and his minions.

Metal Recovery from Electronic Waste: Biological Versus Chemical Leaching for Recovery of Copper and Gold Aug 02 2021 Waste electrical and electronic equipment (WEEE)

generation is a global problem. Despite the growing awareness and deterring legislation, most of the WEEE is disposed improperly, i.e. landfilled or otherwise shipped overseas, and treated in sub-standard conditions. Informal recycling of WEEE has catastrophic effects on humans and the environment. WEEE contains considerable quantities of valuable metals such as base metals, precious metals and rare earth elements (REE). Metal recovery from WEEE is conventionally carried out by pyrometallurgical and hydrometallurgical methods. In this PhD research, novel metal recovery technologies from WEEE are investigated. Using acidophilic and cyanide-generating bacteria, copper and gold were removed from crushed electronic waste with removal efficiencies of 98.4 and 44.0%, respectively. The leached metals in solution were recovered using sulfidic precipitation and electrowinning separation techniques. Finally, a techno-economic assessment of the technology was studied. This research addresses the knowledge gap on two metal extraction approaches, namely chemical and biological, from a secondary source of metals. The essential parameters of the selective metal recovery processes, scale-up potential, techno-economic and sustainability assessment have been studied.

Current Developments in Biotechnology and Bioengineering Sep 03 2021 Current Developments in Biotechnology and Bioengineering: Solid Waste Management provides extensive coverage of new developments, state-of-the-art technologies, and potential future trends, reviewing the latest innovative developments in environmental biotechnology and bioengineering as they pertain to solid wastes, also revealing current research priority areas in solid waste treatment and management. The fate of solid wastes can be divided into three major areas, recycling, energy recovery, and safe disposal. From this foundation, the book covers such

key areas as biotechnological production of value added products from solid waste, bioenergy production from various organic solid wastes, and biotechnological solutions for safe, environmentally-friendly treatment and disposal. The state of the art situation, potential advantages, and limitations are discussed, along with proposed strategies on how to overcome limitations. Reviews available bioprocesses for the production of bioproducts from solid waste Outlines processes for the production of energy from solid waste using biochemical conversion processes Lists various environmentally friendly treatments of solid waste and its safe disposal *Principles of Accounting Volume 1 - Financial Accounting* Jun 12 2022 The text and images in this book are in grayscale. A hardback color version is available. Search for ISBN 9781680922929. Principles of Accounting is designed to meet the scope and sequence requirements of a two-semester accounting course that covers the fundamentals of financial and managerial accounting. This book is specifically designed to appeal to both accounting and non-accounting majors, exposing students to the core concepts of accounting in familiar ways to build a strong foundation that can be applied across business fields. Each chapter opens with a relatable real-life scenario for today's college student. Thoughtfully designed examples are presented throughout each chapter, allowing students to build on emerging accounting knowledge. Concepts are further reinforced through applicable connections to more detailed business processes. Students are immersed in the "why" as well as the "how" aspects of accounting in order to reinforce concepts and promote comprehension over rote memorization. Conversion of Large Scale Wastes into Value-added Products Feb 20 2023 Concern about the fate of waste products produced by a wide range of industrial processes has led to the realization

that they may have potential uses and, therefore, value. In an effort to develop more sustainable processes and reduce waste storage, the use of waste as a resource has been gaining attention worldwide. Consequently, there have been a large number of studies aimed at utilizing such wastes. Conversion of Large Scale Wastes into Value-added Products discusses various selected classes of large-scale waste and their current applications and potential future applications. This book provides a snapshot of a continually evolving field, which includes both well-established processes and a drive toward developing strategies for new applications of wastes. The first chapter provides a general introduction to the area of large-scale waste utilization, including drivers for waste recovery, and secondary processes and products for waste reuse. Subsequent chapters discuss applications and potential applications in specific classes of large-scale waste: Various types of waste generated from different metal processing operations Waste generated by coal combustion, a major source of power generation that produces enormous quantities of waste Waste electrical and electronic equipment, important for recycling finite resources and reducing health and environmental risks Food waste, a significant and diverse waste stream with economic and environmental impacts The final chapter presents a general conclusion to the broad subject of waste utilization, summarizing the topics and addressing future trends in waste research.
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polymer and biopolymer science. It covers all areas of research in polymer and biopolymer science including chemistry, physical chemistry, physics, material science. The thematic volumes are addressed to scientists, whether at universities or in industry, who wish to keep abreast of the important advances in the covered topics. Advances in Polymer Science enjoy a longstanding tradition and good reputation in its community. Each volume is dedicated to a current topic, and each review critically surveys one aspect of that topic, to place it within the context of the volume. The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically, presenting selected examples, explaining and illustrating the important principles, and bringing together many important references of primary literature. On that basis, future research directions in the area can be discussed. Advances in Polymer Science volumes thus are important references for every polymer scientist, as well as for other scientists interested in polymer science - as an introduction to a neighboring field, or as a compilation of detailed information for the specialist. Review articles for the individual volumes are invited by the volume editors. Single contributions can be specially commissioned. Readership: Polymer scientists, or scientists in related fields interested in polymer and biopolymer science, at universities or in industry, graduate students.

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