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Nanomaterials for Water Remediation - Ajay Kumar Mishra 2020-06-08
The capability to generate potable water from polluted sources is growing in importance as pharmaceuticals, microplastics and waste permeate our soil. Nanotechnology allows for

improvements in water remediation technologies by taking advantage of the unique properties of materials at this small scale.

Travels in England, France, Spain, and the Barbary States - Mordecai Manuel Noah 1819

Biorefinery Concepts, Energy

and Products - Venko Beschkov
2020-10-07

The interest in biofuel production and application is governed by the depletion of fossil fuel resources and the threatening pollution of the atmosphere because of the extensive emissions of greenhouse gases, which the present global vegetation cannot cope with. A remedy against the greenhouse gas emissions is the use of biomass presently grown as a source for biofuels. Biofuels can be further utilized as substrates for bulk chemical products. This approach is known as the biorefinery concept as an analogue to the oil-based refineries. The present book offers some examples and new ideas for the broader applications of biofuels and the resulting raw materials for energy and chemical products as alternatives to the traditional fossil fuels.

Proceedings of Mechanical Engineering Research Day 2017 - Mohd Fadzli Bin Abdollah 2017-05-29

This e-book is a compilation of

papers presented at the Mechanical Engineering Research Day 2017 (MERD'17) - Melaka, Malaysia on 30 March 2017.

[The Nativist Prophets of Early Islamic Iran](#) - Patricia Crone
2012-06-28

Patricia Crone's latest book is about the Iranian response to the Muslim penetration of the Iranian countryside, the revolts subsequently triggered there, and the religious communities that these revolts revealed. The book also describes a complex of religious ideas that, however varied in space and unstable over time, has demonstrated a remarkable persistence in Iran across a period of two millennia. The central thesis is that this complex of ideas has been endemic to the mountain population of Iran and occasionally become epidemic with major consequences for the country, most strikingly in the revolts examined here, and in the rise of the Safavids who imposed Shi'ism on Iran. This learned and engaging book by one of the most influential scholars of early Islamic

history casts entirely new light on the nature of religion in pre-Islamic Iran, and on the persistence of Iranian religious beliefs both outside and inside Islam after the Arab conquest.

Organic Fertilizers - Marcelo Larramendy 2016-06-30

This book, *Organic Fertilizers - From Basic Concepts to Applied Outcomes*, is intended to provide an overview of emerging researchable issues related to the use of organic fertilizers that highlight recent research activities in applied organic fertilizers toward a sustainable agriculture and environment. We aimed to compile information from a diversity of sources into a single volume to give some real examples extending the concepts in organic fertilizers that may stimulate new research ideas and trends in the relevant fields.

[Sustainable Bioconversion of Waste to Value Added Products](#)

- Inamuddin 2021-04-20

This edited book discusses various processes of feedstocks bioconversion such as bioconversion of food waste,

human manure, industrial waste, beverage waste, kitchen waste, organic waste, fruit and vegetable, poultry waste, solid waste, agro-industrial waste, cow dung, steroid, lignocellulosic residue, biomass, natural gas etc.

Nowadays, the industrial revolution and urbanization have made human life comfortable. However, this requires excess usage of natural resources starting from food and food products, to energy resources, materials as well as chemicals. The excess use of natural resources for human comfort is expected to high fuel prices, decline natural resources as well as cause a huge hike in the cost of raw materials. These factors are pushing researchers to grow environmentally friendly processes and techniques based on inexpensive and sustainable feedstock to accomplish such worldwide targets. Bioconversion, otherwise called biotransformation, is the change of natural materials, for example, plant or animal

waste, into usable items or energy sources by microorganisms. Bioconversion is an environmentally friendly benevolent choice to supplant the well-established chemical procedures utilized these days for the production of chemicals and fuels. A variety of alternatives advancements are being considered and are directly accessible to acquire diverse valuable end-products through bioprocesses. This book discusses in detail the process and techniques of bioconversion by focusing on the organic feedstock of animal and plant origin. It brings solutions to the bioconversion of various feedstock into value-added products.

501 INOVASI IPB DALAM 1226 INOVASI INDONESIA -

Seri Lain-lain - - Tim Lembaga Kawasan Sains dan Teknologi 2020-12-31 Keikutsertaan IPB dalam program 100 plus Inovasi Indonesia yang diselenggarakan oleh Business Innovation Center (BIC) dengan dukungan dari Kementerian Riset, Teknologi

dan Pendidikan Tinggi serta Lembaga Ilmu Pengetahuan Indonesia (LIPI) merupakan salah satu ajang untuk mempromosikan inovasi IPB di tingkat nasional. Selama 12 (dua belas) tahun berturut-turut mengikuti program 100 plus Inovasi Indonesia yang diselenggarakan sejak tahun 2008 sampai dengan tahun 2019, IPB mendominasi daftar Karya Inovatif Indonesia Paling Prospektif. Selama dua belas tahun tersebut dari total 1226 inovasi Indonesia paling prospektif sebanyak 501 inovasi merupakan karya inovatif yang dihasilkan oleh para inovator IPB atau sekitar 40,86 %.

Prices of Chemicals - Frederick Ernest Breithut 1919

District Laboratory Practice in Tropical Countries -

Monica Cheesbrough
2006-03-02

This new edition includes an update on HIV disease/AIDS, recently developed HIV rapid tests to diagnose HIV infection and screen donor blood, and current information on

antiretroviral drugs and the laboratory monitoring of antiretroviral therapy. Information on the epidemiology and laboratory investigation of other pathogens has also been brought up to date. Several new, rapid, simple to perform immunochromatographic tests to assist in the diagnosis of infectious diseases are described, including those for brucellosis, cholera, dengue, leptospirosis, syphilis and hepatitis. Recently developed IgM antibody tests to investigate typhoid fever are also described. The new classification of salmonellae has been introduced. Details of manufacturers and suppliers now include website information and e-mail addresses. The haematology and blood transfusion chapters have been updated, including a review of haemoglobin measurement methods in consideration of the high prevalence of anaemia in developing countries.

Agroecosystems - Marcelo L. Larramendy 2021-04-07

This book, "Agroecosystems - Very Complex Environmental Systems", aims to present an update on different aspects associated with the importance of sustainable agriculture. It was our intention to gather information from diverse sources in this volume and to give some real-life examples, extending the appreciation of the complexity of this subject in a way that may stimulate new approaches in relevant fields.

The Russian Folktale by
Vladimir Yakovlevich Propp -
Vladimir Yakovlevich Propp
2012-09-12

Vladimir Propp is the Russian folklore specialist most widely known outside Russia thanks to the impact of his 1928 book *Morphology of the Folktale*-but *Morphology* is only the first of Propp's contributions to scholarship. This volume translates into English for the first time his book *The Russian Folktale*, which was based on a seminar on Russian folktales that Propp taught at Leningrad State University late in his life. Edited and translated by

Sibelan Forrester, this English edition contains Propp's own text and is supplemented by notes from his students. The Russian Folktale begins with Propp's description of the folktale's aesthetic qualities and the history of the term; the history of folklore studies, first in Western Europe and then in Russia and the USSR; and the place of the folktale in the matrix of folk culture and folk oral creativity. The book presents Propp's key insight into the formulaic structure of Russian wonder tales (and less schematically than in Morphology, though in abbreviated form), and it devotes one chapter to each of the main types of Russian folktales: the wonder tale, the "novellistic" or everyday tale, the animal tale, and the cumulative tale. Even Propp's bibliography, included here, gives useful insight into the sources accessible to and used by Soviet scholars in the third quarter of the twentieth century. Propp's scholarly authority and his human warmth both emerge from this

well-balanced and carefully structured series of lectures. An accessible introduction to the Russian folktale, it will serve readers interested in folklore and fairy-tale studies in addition to Russian history and cultural studies.

Fluorine and the Environment: Agrochemicals, Archaeology, Green Chemistry and Water - 2006-10-04

Advances in Fluorine Science is a new book series presenting critical multidisciplinary overviews on areas in which fluorine and fluoride compounds have a decisive impact. The individual volumes of Advances in Fluorine Science are thematic, addressing comprehensively both the science and applications on topics including the Environment, Green chemistry, Medicine, Health & Life Sciences, New Technologies & Materials Science, Energy and the Earth Sciences. In the present volume, the key-position of fluoro-products in agriculture is reviewed, since a large percentage of agro-chemicals

and pesticides contain at least one fluorine atom. However, improvements in the use of fluorine-based products in agrochemicals cannot be developed without taking into consideration a safer environment, on both levels of greener synthesis routes and a reduction of the negative impact on plants and organisms. Within this scope, fluorine has a very peculiar place, since its high reactivity yields several advantages, for instance in by-passing various polluting multi-step reactions. Fluorine-based materials are reviewed as efficient tools for protecting our cultural heritage. Also using up-to-date techniques such as ion beam analysis, this element can help relative dating applications, ranging from burial durations of archaeological bones and teeth to the determination of exposure ages of meteorites on the Antarctic ice shield. Providing an original approach of the complex relationships between chemistry and the environment Reviewing the key-position of fluoro-products

in agriculture Multidisciplinary contributions from chemists, geologists, biologists, environmentalists and industry staffs

Advances in Biofuels -

Pogaku Ravindra 2013-03-02
Biofuels will play a key role in the 21st century as the world faces two critical problems; volatile fuel prices and global climatic changes. Both of these are linked to the overdependence on the fossil fuels: petroleum, natural gas, and coal. Transportation is almost totally dependent on petroleum based fuels such as gasoline, diesel fuel, liquefied petroleum gas, and on natural gas. Despite a significant amount of research into biofuels, the field has not been able to replace fossil fuels. Recent advances will change this scenario. Extracting fuel from biomass has been very expensive (both monetarily and in land usage), time consuming, unusable byproducts, etc. Technology to obtain liquid fuel from non-fossil sources must be improved to be faster, more

efficient and more cost-effective. This book will cover the current technology used for a variety of plant types and explore shortcomings with each.

Surface and Interface Chemistry of Clay Minerals -

Robert Schoonheydt

2018-11-05

Surface and Interface Chemistry of Clay Minerals, Volume 9, delivers a fundamental understanding of the surface and interface chemistry of clay minerals, thus serving as a valuable resource for researchers active in the fields of materials chemistry and sustainable chemistry. Clay minerals, with surfaces ranging from hydrophilic, to hydrophobic, are widely studied and used as adsorbents. Adsorption can occur at the edges and surfaces of clay mineral layers and particles, and in the interlayer region. This diversity in properties and the possibility to tune the surface properties of clay minerals to match the properties of adsorbed molecules is the basis for

study. This book requires a fundamental understanding of the surface and interface chemistry of clay minerals, and of the interaction between adsorbate and adsorbent. It is an essential resource for clay scientists, geologists, chemists, physicists, material scientists, researchers, and students.

Presents scientists and engineers with a resource they can rely on for their own research and work involving clay minerals Includes an in-depth look at ion exchange, adsorption of inorganic and organic molecules, including polymers and proteins, and catalysis occurring at the surfaces of clay minerals Includes materials chemistry of clay minerals with chiral clay minerals, optical materials and functional films

Remote Sensing of Coastal Aquatic Environments -

Richard L. Miller 2007-03-22

This book provides extensive insight on remote sensing of coastal waters from aircraft and space-based platforms. The primary focus of the book is optical remote sensing using

passive instruments, to measure and analyze the coastal aquatic environment. The authors have gathered information from a variety of sources, to help non-specialists grasp new techniques and technology, to quickly produce useful data

Gaseous Carbon Waste Streams Utilization -

National Academies of Sciences, Engineering, and Medicine 2019-02-22

In the quest to mitigate the buildup of greenhouse gases in Earth's atmosphere, researchers and policymakers have increasingly turned their attention to techniques for capturing greenhouse gases such as carbon dioxide and methane, either from the locations where they are emitted or directly from the atmosphere. Once captured, these gases can be stored or put to use. While both carbon storage and carbon utilization have costs, utilization offers the opportunity to recover some of the cost and even generate economic value. While current carbon

utilization projects operate at a relatively small scale, some estimates suggest the market for waste carbon-derived products could grow to hundreds of billions of dollars within a few decades, utilizing several thousand teragrams of waste carbon gases per year. Gaseous Carbon Waste Streams Utilization: Status and Research Needs assesses research and development needs relevant to understanding and improving the commercial viability of waste carbon utilization technologies and defines a research agenda to address key challenges. The report is intended to help inform decision making surrounding the development and deployment of waste carbon utilization technologies under a variety of circumstances, whether motivated by a goal to improve processes for making carbon-based products, to generate revenue, or to achieve environmental goals.

Small-scale Palm Oil Processing in Africa - Kwasi Poku 2002

This publication provides information on the processing of palm oil fruits for the extraction of palm oil and palm kernel oil by small-scale mills in Africa. It is hoped that this will help promote the improvement of yield and quality of palm oil production and contribute to the modernisation of small-scale palm oil factories in Africa.

Use of Foamed Concrete in Construction - Ravindra K. Dhir 2005

- Preface - Introduction - Organising Committee - Scientific and Technical Committee - Collaborating Institutions - Sponsoring Organisations With Exhibition - Exhibiting Organisations - Supporting Institutions - Opening Paper - Introduction to Foamed Concrete (What? Why? How?) THEME 1 MATERIALS, PROPERTIES AND PRODUCTION CHARACTERISTICS Keynote Paper - Exploitation of Solid Wastes with Foamed Concrete - Challenges Ahead - Production of Foamed Concrete with High Calcium Fly Ash - Designing

Mix Composition of Foamed Concrete with High Fly Ash Contents - Optimisation of Foamed Concrete Mix of Different Sand-Cement Ratio and Curing Conditions - New Innovative Lightweight Foam Concrete Technology - Investigations into the Air Void Characteristics of Foamed Concrete THEME 2 SPECIFICATION FOR FOAMED CONCRETE, APPLICATIONS AND CASE STUDIES Keynote Paper - Behaviour and Assessment of Foamed Concrete for Fill and Highway Applications - The Use of Foamed Concrete in Refractories - Heat-Resistant Cellular Concretes Based on Alkaline Cements - Major Road and Bridge Projects with Foam Concrete - Unautoclaved Foam Concrete and its Constructions, Adopted to the Regional Conditions - Assessment of Pre-Cast Foamed Concrete as Support Medium in Deep Level Mining - Stabilisation of Old Mine Workings: A Case Study of the Use of Foamed Concrete in Combe Down Stone Mines - Closing Paper - Index of

Authors - Subject Index
Asia's Next Giant - Alice Hoffenberg Amsden 1992
South Korea has been quietly growing into a major economic force, even challenging Japan in some industries. This growth may be seen as an example of "late industrialization" and this book discusses this point.

Sustainable Food Waste Management - Monika Thakur 2021-01-04

This book discusses one of the biggest challenges of the food industry, which is waste management. Food industries generate high amounts of waste, both solid and liquid, resulting from the production, processing and consumption of food. Stringent environmental legislators have made the task of waste management more challenging. Through the three sections of this book, the readers are introduced to the different types of wastes generated, utilization of waste through food processing industry and sustainable waste management technologies. The different chapters describe how the biomass and the

valuable nutrients from food industry wastes could be used to develop value-added products. The book reiterates that food wastes and their by-products are an excellent source of sugars, minerals, dietary fiber, organic acids, bio active compounds such as polyphenols, carotenoids and phytochemicals etc. This book is an excellent resource for industry experts, researchers and students in the field of food science, food processing and food waste management.

Australian Laboratory Handbook of Soil and Water Chemical Methods - G. E. Rayment 1992

Volume 3 of a three-volume set of Australian Soil and Land Survey Handbooks for the practising chemist/analyst, setting out guidelines for the survey of components of land resources. It is designed to minimise the effect of such variables in surveying as the choice of analytical methods, quality of field sampling, preservation of samples, etc, and to promote standardisation of soil and water analysis.

Design Aspects of Used Lubricating Oil Re-Refining

- Firas Awaja 2006-06-06

Design Aspects of Used Lubricating Oil Re-Refining presents a feasible and comprehensive technology for recycling of used lubricating oils. This book discusses efficient and effective ways of reusing lubricating oil which, if implemented, will result in a better quality of life, the stability of the environment, the health of national economies and better relationships between nations. It presents essential experimental results for process designers and engineers to establish a complete process design. The conditions and behaviour in each step in the re-refining process, (dehydration, solvent extraction, solvent stripping, and vacuum distillation) are examined in order to discover ways to recover and reuse wastes that are produced by lubricating oils. •Addresses and demonstrates the current knowledge of the process behaviour and re-refining

technology of used lubricating oils •Introduces background information on the lubrication, oil recycling industry outlining the major manufacturers and detailing their processes •Contains 94 figures and 22 tables that on results regarding the re-refining process behaviour of used lubricating oil

Biomethanation I - Birgitte K. Ahring 2003-07-03

Anaerobic digestion is a major field for the treatment of waste and wastewater. Lately the focus has been on the quality of the effluent setting new demands for pathogen removal and for successful removal of unwanted chemicals during the anaerobic process. The two volumes on Biomethanation are devoted to presenting the state of art within the science and application of anaerobic digestion. They describe the basic microbiological knowledge of importance for understanding the processes of anaerobic bioreactors along with the newest molecular techniques for examining these systems. In addition, the

applications for treatment of waste and wastewaters are presented along with the latest knowledge on process control and regulation of anaerobic bioprocesses. Together these two volumes give an overview of a growing area, which previously has never been presented in such a comprehensive way.

Nanomaterials from Clay

Minerals - Aiqin Wang

2019-08-15

Nanomaterials from Clay Minerals: A New Approach to Green Functional Materials details the structure, properties and modification of natural nanoscale clay minerals and their application as the green constituent of functional materials. Natural nanomaterials from clay minerals have diverse morphologies, from 1D to 3D, including nanorods, nanofibers, nanotubes, nanosheets and nanopores. These structures show excellent adsorption, reinforcing, supporter, electronic, catalytic and biocompatible properties and are great as sustainable

alternatives for toxic or expensive artificial materials. This book provides systematic coverage of clay nanomaterials as eco-friendly resources, emphasizing the importance of such materials in a range of industries, including biomedicine, energy and electronics. This book will provide an important reference for materials scientists and engineers who have an interest in sustainable material development. Presents systematic coverage of a broad range of nanomaterials from clay minerals, including Kaolinite, Smectite and Halloysite Depicts use cases for each mineral in a variety of applications, such as drug delivery, agriculture, and in the reinforcement of polymer materials Provides an overview on the advantages and limitations of nanomaterials from clay minerals, as well as chapters on the future potential of such materials *Edible Oil Processing* - Wolf Hamm 2013-08-05 Oils and fats are almost ubiquitous in food processing,

whether naturally occurring in foods or added as ingredients that bring functional benefits. Whilst levels of fat intake must be controlled in order to avoid obesity and other health problems, it remains the fact that fats (along with proteins and carbohydrates) are one of the three macronutrients and therefore an essential part of a healthy diet. The ability to process oils and fats to make them acceptable as part of our food supplies is a key component in our overall knowledge of them. Without this ability, the food that we consume would be totally different, and much of the flexibility available to us as a result of the application of processing techniques would be lost. Obviously we need to know how to process fatty oils, but we also need to know how best to use them once they have been processed. This second edition of Edible Oil Processing presents a valuable overview of the technology and applications behind the subject. It covers the latest technologies which address

new environmental and nutritional requirements as well as the current state of world edible oil markets. This book is intended for food scientists and technologists who use oils and fats in food formulations, as well as chemists and technologists working in edible oils and fats processing.

Proceedings of the 6th International Conference and Exhibition on Sustainable Energy and Advanced Materials -

Ubaidillah Sabino 2020-06-01

This book gathers the proceedings of the 6th International Conference and Exhibition on Sustainable Energy and Advanced Materials (ICE-SEAM 2019), held on 16–17 October 2019 in Surakarta, Indonesia. It focuses on two relatively broad areas – advanced materials and sustainable energy – and a diverse range of subtopics: Advanced Materials and Related Technologies: Liquid Crystals, Semiconductors, Superconductors, Optics, Lasers, Sensors, Mesoporous

Materials, Nanomaterials, Smart Ferrous Materials, Amorphous Materials, Crystalline Materials, Biomaterials, Metamaterials, Composites, Polymers, Design, Analysis, Development, Manufacturing, Processing and Testing for Advanced Materials. Sustainable Energy and Related Technologies: Energy Management, Storage, Conservation, Industrial Energy Efficiency, Energy-Efficient Buildings, Energy-Efficient Traffic Systems, Energy Distribution, Energy Modeling, Hybrid and Integrated Energy Systems, Fossil Energy, Nuclear Energy, Bioenergy, Biogas, Biomass Geothermal Power, Non-Fossil Energies, Wind Energy, Hydropower, Solar Photovoltaic, Fuel Cells, Electrification, and Electrical Power Systems and Controls. Food Processing By-Products and their Utilization - Anil Kumar Anal 2017-10-09 Food Processing By-Products and their Utilization An in-depth look at the economic and environmental benefits that

food companies can achieve—and the challenges and opportunities they may face—by utilizing food processing by-products Food Processing By-Products and their Utilization is the first book dedicated to food processing by-products and their utilization in a broad spectrum. It provides a comprehensive overview on food processing by-products and their utilization as source of novel functional ingredients. It discusses food groups, including cereals, pulses, fruits, vegetables, meat, dairy, marine, sugarcane, winery, and plantation by-products; addresses processing challenges relevant to food by-products; and delivers insight into the current state of art and emerging technologies to extract valuable phytochemicals from food processing by-products. Food Processing By-Products and their Utilization offers in-depth chapter coverage of fruit processing by-products; the application of food by-products in medical and pharmaceutical

industries; prebiotics and dietary fibers from food processing by-products; bioactive compounds and their health effects from honey processing industries; advances in milk fractionation for value addition; seafood by-products in applications of biomedicine and cosmetics; food industry by-products as nutrient replacements in aquaculture diets and agricultural crops; regulatory and legislative issues for food waste utilization; and much more. The first reference text to bring together essential information on the processing technology and incorporation of by-products into various food applications Concentrates on the challenges and opportunities for utilizing by-products, including many novel and potential uses for the by-products and waste materials generated by food processing Focuses on the nutritional composition and biochemistry of by-products, which are key to establishing their functional health benefits as foods Part of the "IFST Advances in Food

Science" series, co-published with the Institute of Food Science and Technology (UK) This book serves as a comprehensive reference for students, educators, researchers, food processors, and industry personnel looking for up-to-date insight into the field. Additionally, the covered range of techniques for by-product utilization will provide engineers and scientists working in the food industry with a valuable resource for their work.

Food Processing By-Products and their Utilization - Anil Kumar Anal
2017-10-23

Food Processing By-Products and their Utilization An in-depth look at the economic and environmental benefits that food companies can achieve—and the challenges and opportunities they may face—by utilizing food processing by-products Food Processing By-Products and their Utilization is the first book dedicated to food processing by-products and their utilization in a broad

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food industry by-products as nutrient replacements in aquaculture diets and agricultural crops; regulatory and legislative issues for food waste utilization; and much more. The first reference text to bring together essential information on the processing technology and incorporation of by-products into various food applications Concentrates on the challenges and opportunities for utilizing by-products, including many novel and potential uses for the by-products and waste materials generated by food processing Focuses on the nutritional composition and biochemistry of by-products, which are key to establishing their functional health benefits as foods Part of the "IFST Advances in Food Science" series, co-published with the Institute of Food Science and Technology (UK) This book serves as a comprehensive reference for students, educators, researchers, food processors, and industry personnel looking for up-to-date insight into the field. Additionally, the covered

range of techniques for by-product utilization will provide engineers and scientists working in the food industry with a valuable resource for their work.

Lights and Shadows of Spiritualism - Daniel Dunglas Home 1877

Daniel Dunglas Home (1833-1886) was a charismatic medium whose seances were attended by European royalty and eminent Victorians like Elizabeth Barrett Browning. Thrown out by his aunt because of the paranormal events which plagued him since childhood, Home became a 'professional house guest' and medium at the age of 17. During seances he purportedly levitated, handled hot coals and channelled the voices of the dead. This volume, first published in 1877, is an evocative examination of spiritualism which explores the history of the practice via the Greeks, the Romans, and Joan of Arc. Simultaneously attacking fraudulent mediums while celebrating 'true' spiritualist practitioners, this

fascinating work details both the criticism and support received by Home and features reproductions of numerous fan letters. Although colourful and impassioned, Home's polemic is written in an amiable style and provides fascinating insights into the life and work of the self-proclaimed 'Grandfather of English Spiritualism'.

Sustainable Solutions for Environmental Pollution, Volume 1 - Nour Shafik El-Gendy 2021-10-12

SUSTAINABLE SOLUTIONS FOR ENVIRONMENTAL POLLUTION This first volume in a broad, comprehensive two-volume set, Sustainable Solutions for Environmental Pollution, concentrates on the role of waste management in solving pollution problems and the value-added products that can be created out of waste, turning a negative into an environmental and economic positive. Environmental pollution is one of the biggest problems facing our world today, in every country, region, and even down to local

landfills. Not just solving these problems, but turning waste into products, even products that can make money, is a huge game-changer in the world of environmental engineering. Finding ways to make fuel and other products from solid waste, setting a course for the production of future biorefineries, and creating a clean process for generating fuel and other products are just a few of the topics covered in the groundbreaking new first volume in the two-volume set, *Sustainable Solutions for Environmental Pollution*. The valorization of waste, including the creation of biofuels, turning waste cooking oil into green chemicals, providing sustainable solutions for landfills, and many other topics are also covered in this extensive treatment on the state of the art of this area in environmental engineering. This groundbreaking new volume in this forward-thinking set is the most comprehensive coverage of all of these issues, laying out the latest advances and addressing the most

serious current concerns in environmental pollution. Whether for the veteran engineer or the student, this is a must-have for any library. AUDIENCE Petroleum, chemical, process, and environmental engineers, other scientists and engineers working in the area of environmental pollution, and students at the university and graduate level studying these areas

Strategic Renewal - Aybars Tuncdogan 2019-03-15
Strategic Renewal is an original research anthology offering insight into a subject area which, although critical for the sustained success of organizations, has received relatively little attention as distinct from the more general phenomenon of strategic change. Firstly, by providing a summary of the literature, this research anthology helps graduate students and new researchers grasp the current state of affairs in the field. Secondly, this research anthology will help update the knowledge base of the existing

researchers in the field. By bringing together various studies, the research anthology determines the core concepts of the field and elucidates the key gaps and future research areas. Through contributions building on the knowledge bases of other disciplines, this research anthology develops an interdisciplinary research agenda, giving the reader an in-depth understanding of the mediating, moderating, and antecedent variables concerning strategic renewal. Strategic Renewal aims to provide a state-of-understanding to the subject, as well as a clear picture of the cross-disciplinary landscape that informs the subject. Thus, this research anthology is essential reading for managers, consultants, and other practitioners, as well as students and scholars of business.

Eco-Efficient Concrete -
Fernando Pacheco-Torgal
2013-02-04

Eco-efficient concrete is a comprehensive guide to the characteristics and

environmental performance of key concrete types. Part one discusses the eco-efficiency and life cycle assessment of Portland cement concrete, before part two goes on to consider concrete with supplementary cementitious materials (SCMs). Concrete with non-reactive wastes is the focus of part three, including municipal solid waste incinerator (MSWI) concrete, and concrete with polymeric, construction and demolition wastes (CDW). An eco-efficient approach to concrete carbonation is also reviewed, followed by an investigation in part four of future alternative binders and the use of nano and biotech in concrete production. With its distinguished editors and international team of expert contributors, Eco-efficient concrete is a technical guide for all professionals, researchers and academics currently or potentially involved in the design, manufacture and use of eco-efficient concrete. The first part of the book examines the

eco-efficiency and life cycle assessment of Portland cement concrete Chapters in the second part of the book consider concrete with supplementary cementitious materials, including properties and performance Reviews the eco-efficient approach to concrete carbonation

Food Polysaccharides and Their Applications - Alistair M. Stephen 2016-04-19

Comprehensive in scope, Food Polysaccharides and Their Applications, Second Edition explains the production aspects and the chemical and physical properties of the main classes of polysaccharides consumed as food, highlighting their nutritional value and their technological characteristics. Chapters in this new edition detail the source, biosynthesis, molecular structures, and physical properties of polysaccharides. They also explore production and uses in food formulations; the effects of cooking and interactions with proteins, lipids, sugars, and metal ions; analytical methods, including

identification and quantitative determination; and nutritional and ecological considerations with emphasis on genetic engineering of food crops. The editors carefully balance coverage of fundamental aspects and practical implications for the food industry. What's New in the Second Edition: Explains the preparation of new starch esters and improved techniques for the production of acid-converted and oxidized starches Details new information on the natural functions of cell wall polysaccharides of seeds in relation to their molecular structures, biosynthesis and enzymatic hydrolysis Presents additional references that include those relating to IR and NMR spectrometric methods of analysis

Potato Biology and Biotechnology - Dick Vreugdenhil 2011-08-31

In the past 15-20 years major discoveries have been concluded on potato biology and biotechnology. Important new tools have been developed

in the area of molecular genetics, and our understanding of potato physiology has been revolutionized due to amenability of the potato to genetic transformation. This technology has impacted our understanding of the molecular basis of plant-pathogen interaction and has also opened new opportunities for the use of the potato in a variety of non-food biotechnological purposes. This book covers the potato world market as it expands further into the new millennium. Authors stress the overriding need for stable yields to eliminate human hunger and poverty, while considering solutions to enhance global production and distribution. It comprehensively describes genetics and genetic resources, plant growth and development, response to the environment, tuber quality, pests and diseases, biotechnology and crop management. Potato Biology is the most valuable reference available for all professionals involved in the

potato industry, plant biologists and agronomists. Offers an understanding of the social, economic and market factors that influence production and distribution Discusses developments and useful traits in transgenic biology and genetic engineering The first reference entirely devoted to understanding new advances in potato biology and biotechnology
Sustainable Solutions for Environmental Pollution, Volume 1 - Nour Shafik El-Gendy 2021-09-20
SUSTAINABLE SOLUTIONS FOR ENVIRONMENTAL POLLUTION This first volume in a broad, comprehensive two-volume set, Sustainable Solutions for Environmental Pollution, concentrates on the role of waste management in solving pollution problems and the value-added products that can be created out of waste, turning a negative into an environmental and economic positive. Environmental pollution is one of the biggest problems facing our world

today, in every country, region, and even down to local landfills. Not just solving these problems, but turning waste into products, even products that can make money, is a huge game-changer in the world of environmental engineering. Finding ways to make fuel and other products from solid waste, setting a course for the production of future biorefineries, and creating a clean process for generating fuel and other products are just a few of the topics covered in the groundbreaking new first volume in the two-volume set, *Sustainable Solutions for Environmental Pollution*. The valorization of waste, including the creation of biofuels, turning waste cooking oil into green chemicals, providing sustainable solutions for landfills, and many other topics are also covered in this extensive treatment on the state of the art of this area in environmental engineering. This groundbreaking new volume in this forward-thinking set is the most comprehensive coverage of all of these issues,

laying out the latest advances and addressing the most serious current concerns in environmental pollution. Whether for the veteran engineer or the student, this is a must-have for any library. AUDIENCE Petroleum, chemical, process, and environmental engineers, other scientists and engineers working in the area of environmental pollution, and students at the university and graduate level studying these areas

[Proceedings of the 7th International Conference and Exhibition on Sustainable Energy and Advanced Materials \(ICE-SEAM 2021\), Melaka, Malaysia - Mohd Fadzli Bin Abdollah 2022-08-01](#)
This book gathers the proceedings of the 7th International Conference and Exhibition on Sustainable Energy and Advanced Materials (ICE-SEAM), held on November 2021, a virtual conference organized in Melaka, Malaysia. It focuses on two relatively broad areas—advanced materials and

sustainable energy—and a diverse range of subtopics: Advanced materials and related technologies: liquid crystals, semiconductors, superconductors, optics, lasers, sensors, mesoporous materials, nanomaterials, smart ferrous materials, amorphous materials, crystalline materials, biomaterials, metamaterials, composites, polymers, design, analysis, development, manufacturing, processing and testing for advanced materials. Sustainable energy and related technologies: energy management, storage, conservation, industrial energy efficiency, energy-efficient buildings, energy-efficient traffic systems, energy distribution, energy modeling, hybrid and integrated energy systems, fossil energy, nuclear energy, bioenergy, biogas, biomass geothermal power, non-fossil energies, wind energy, hydropower, solar photovoltaic, fuel cells, electrification, and electrical power systems and controls. Biofuel Co-products as Livestock Feed - Harinder P. S.

Makkar 2012

This publication covers a wide array of co-products.

Handbook of Energy Efficiency and Renewable Energy - D.

Yogi Goswami 2007-05-07

Brought to you by the creator of numerous bestselling handbooks, the Handbook of Energy Efficiency and Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection. The handbook emphasizes the engineering aspects of energy conservation and renewable energy. Taking a world view, the editors discuss key topics underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about energy and environmental futures. This is vital information for planning a secure energy future. Practical in approach, the book covers technologies currently available or expected to be ready for implementation in the

near future. It sets the stage with a survey of current and future world-wide energy issues, then explores energy policies and incentives for conservation and renewable energy, covers economic assessment methods for conservation and generation technologies, and discusses the environmental costs of various energy generation technologies. The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies, economics, and environmental costs of fossil and nuclear technologies. Highlighting energy conservation as the cornerstone of a successful national energy strategy, the book covers energy management strategies for industry and buildings, HVAC controls, co-generation, and advances in specific technologies such as motors, lighting, appliances, and heat pumps. It explores energy storage and generation from renewable sources and

underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems. These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future.

Integrated Natural Resources Research - Lawrence K. Wang
2021-07-21

This book is a sister volume to Volume 20 of the Handbook of Environmental Engineering Series, "Integrated Natural Resources Management", and expands on the themes of that volume by addressing the conservation and protection of natural resources in an environmental engineering context through state-of-the-art research methodologies and technologies. With a focus on water and wastewater treatment, the book takes a multidisciplinary approach to provide readers with an understanding of developments in natural resources technology over the last few decades, and how technology and industry

methods will progress to ensure cleaner and sustainable methods of natural resources management. The key topics covered include biological activated carbon treatment for recycling biotreated wastewater, composting for food processing wastes, treatment of wastewater from chemical industries, agricultural waste as a low-cost

adsorbent, and the invention, design and construction of potable water dissolved air flotation and filtration plants. The book will be useful to environmental resources engineers, researchers, water treatment plant managers, chemical engineers, industrial plant managers, and environmental conservation agencies.