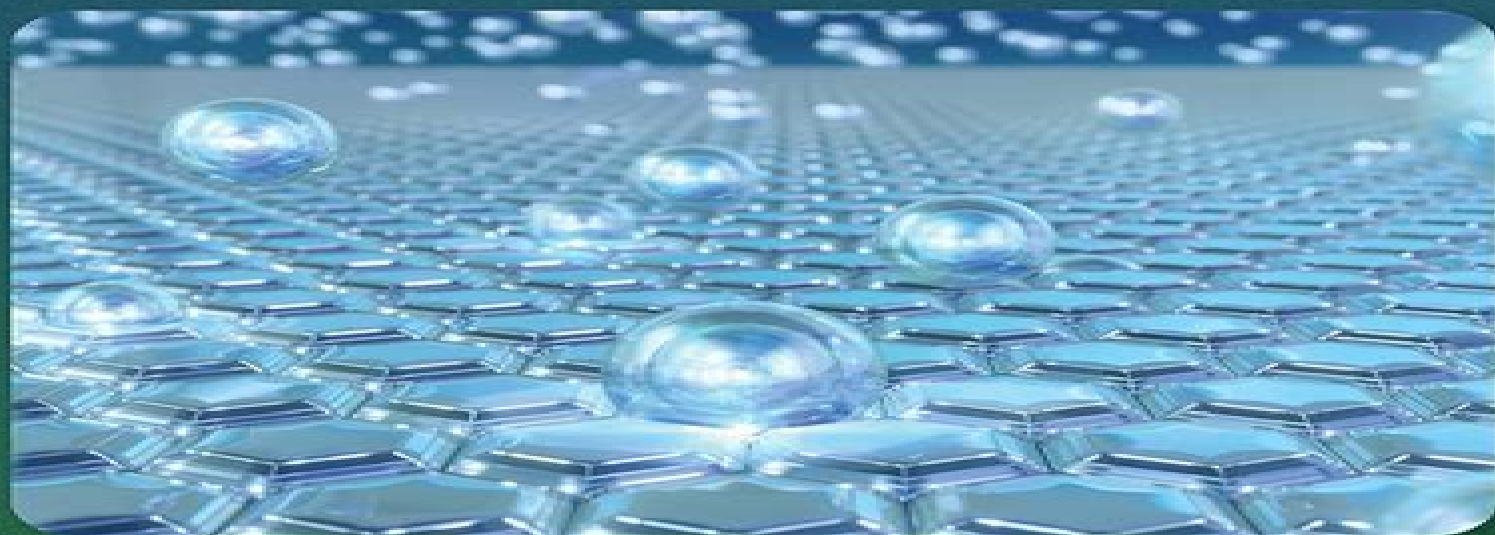


Sustainability: Contributions through Science and Technology

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Nanotechnologies in Green Chemistry and Environmental Sustainability



Edited by

Samsul Ariffin Abdul Karim



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Green Chemistry For Environmental Sustainability Sustainability Contributions Through Science And Technology

Koon-Yang Lee



Green Chemistry For Environmental Sustainability Sustainability Contributions Through Science And Technology:

Green Chemistry for Environmental Sustainability Sanjay K. Sharma,Ackmez Mudhoo,2010-07-19 When the Nobel Prize Committee recognized the importance of green chemistry with its 2005 Nobel Prize for Chemistry this relatively new science came into its own Although no concerted agreement has been reached yet about the exact content and limits of this interdisciplinary discipline there seems to be increasing interest in environmental topic *Green Chemistry for Environmental Sustainability* Sanjay K. Sharma,Ackmez Mudhoo,2010-07-19 When the Nobel Prize Committee recognized the importance of green chemistry with its 2005 Nobel Prize for Chemistry this relatively new science came into its own Although no concerted agreement has been reached yet about the exact content and limits of this interdisciplinary discipline there seems to be increasing interest in environmental topic *Nanotechnologies in Green Chemistry and Environmental Sustainability* Samsul Ariffin Abdul Karim,2022-12-09 Nanotechnologies represent a fast growing market and this unique volume highlights the current studies in applied sciences on sustainability of green science and technology The chapters include modelling machine learning nanotechnology nanofluids nanosystems smart materials and applications and solar and fuel cells technology The authors cover simulation additive manufacturing machine learning and the autonomous system Various aspects of green science as well as trans disciplinary topics between fundamental science and engineering are presented The book is suitable for all postgraduates and researchers working in this rapid growing research area Features Presenting latest research on green materials and sustainability Provide in depth discussion on modeling and simulation using latest techniques Technical exposure for the readers on additive manufacturing principles Numerous examples on nanofluids and nano technology are presented Discusses computer modeling superconductivity nanotubes and related structures such as graphene *Nanotechnologies Towards Green Chemistry for Environmental Sustainability* Samsul Ariffin Abdul Karim,2022-12 Nanotechnologies represent a fast growing market and this unique volume highlights the current studies in applied sciences on sustainability of green science and technology The chapters include modelling machine learning nanotechnology nanofluids nanosystems smart materials and applications and solar and fuel cells technology The authors cover simulation additive manufacturing machine learning and the autonomous system Various aspects of green science as well as trans disciplinary topics between fundamental science and engineering are presented The book is suitable for all postgraduates and researchers working in this rapid growing research area Presenting latest research on green materials and sustainability Provide in depth discussion on modeling and simulation using latest techniques Technical exposure for the readers on additive manufacturing principles Numerous examples on nanofluids and nano technology are presented Discusses computer modeling superconductivity nanotubes and related structures such as graphene

Nanotechnologies in Green Chemistry and Environmental Sustainability Samsul Ariffin Abdul Karim,2022-12-09

Nanotechnologies represent a fast growing market and this unique volume highlights the current studies in applied sciences on sustainability of green science and technology The chapters include modelling machine learning nanotechnology nanofluids nanosystems smart materials and applications and solar and fuel cells technology The authors cover simulation additive manufacturing machine learning and the autonomous system Various aspects of green science as well as trans disciplinary topics between fundamental science and engineering are presented The book is suitable for all postgraduates and researchers working in this rapid growing research area Features Presenting latest research on green materials and sustainability Provide in depth discussion on modeling and simulation using latest techniques Technical exposure for the readers on additive manufacturing principles Numerous examples on nanofluids and nano technology are presented Discusses computer modeling superconductivity nanotubes and related structures such as graphene

Sustainability of Biomass through Bio-based Chemistry Valentin Popa,2021-03-21 The process of photosynthesis is a potential source of energy and bioproducts Renewable sources of polymeric materials offer an answer to maintaining sustainable development of economically and ecologically attractive technology The innovations in the development of materials from biopolymers preservation of fossil based raw materials complete biological degradability reduction in the volume of garbage and compostability in the natural cycle climate protection through reduction of carbon dioxide released and the application possibilities of agricultural resources for the production of bio green materials are some of the reasons why such materials are attracting public interest FEATURES Discusses waste from urban areas forestry and agricultural processes specifically grown crops such as trees starch crops sugar crops hydrocarbon plants and oils and finally aquatic plants such as water seaweeds and algae which can be used as raw materials for sustainable development Presents recent advances in the development of some specifically chemical components of biomasses for a sustainable future Focuses on lignocellulose as a source of bio based products Draws upon expertise from various countries Describes how upgraded and integrated biomass processing may reduce the risks associated with the COVID 19 pandemic Valentin I Popa is professor emeritus of Wood Chemistry and Biotechnology at Gheorghe Asachi Technical University of Iasi Romania

Catalysis for Sustainability Thomas P Umile,2015-08-05 Catalysis for Sustainability Goals Challenges and Impacts explores the intersection between catalytic science and sustainable technologies as a means to addressing current economic social and environmental problems These problems include harnessing alternative energy sources pollution prevention and remediation and the manufacturing of comm

Green Organic Chemistry in Lecture and Laboratory Andrew P. Dicks,2016-04-19 The last decade has seen a huge interest in green organic chemistry particularly as chemical educators look to green their undergraduate curricula Detailing published laboratory experiments and proven case studies this book discusses concrete examples of green organic chemistry teaching approaches from both lecture seminar and practical perspe

Green Sustainable Energy William M. Nelson,2025-09-29 As the world struggles with sustainable practices and policies regarding environmental protection green

sustainable energy is a key player The chemistries involving energy production must be efficient but also must evolve and change to meet new restrictions and footprint guidelines Rather than only being seen as a necessary evil energy through green sustainable energy GSE must become a key piece in the sustainability puzzle The green sustainable energies presented in this book will demonstrate that progress in science can and should be leading contributors in discussions on environmental science and chemistry This book Explains the necessary role of energy in the sustainability of the world in the 21st century Recognizes past practices and future potential guided by global demand and the four drivers economic scientific regulatory and environmental Presents a much needed multi dimensional approach to the subject Demonstrates that green sustainable energies can and should be leading contributors in discussions on environmental science and chemistry Highlights new products processes applications and developments in green sustainable energy which demonstrates how sustainability is adapting in the new age *Microwave Heating as a Tool for Sustainable Chemistry* Nicholas E. Leadbeater, 2010-09-02 Shorter reaction times higher product yields and enhanced selectivity are some of the advantages microwave heating has over conventional methods causing its use to transition from a curiosity to mainstream both in industrial and academic settings Microwave Heating as a Tool for Sustainable Chemistry showcases the application of microwave heati

Nanocellulose and Sustainability Koon-Yang Lee, 2018-01-03 Nanometre scale cellulose fibres or nanocellulose are emerging materials for various advanced applications Nanocellulose and Sustainability Production Properties Applications and Case Studies provides a comprehensive overview of nanocellulose production nanocellulose properties and nanocellulose in selected applications This book serves as an entry level reference text for undergraduates graduate students researchers and professional engineers working in the area of nanocellulose and sustainability Features Summarises the surface and bulk properties of various types of nanocellulose Reviews the application of nanocellulose in water purification and optically transparent materials Provides an overview of nanocellulose as Pickering emulsifier binder for loose natural fibres to produce non woven preforms as well as nanocellulose based aerogels Presents a techno economic analysis of industrial bacterial cellulose production Discusses the pilot scale production of cellulose nanocrystals *Climate Change and Carbon Recycling* K. S. Birdi, 2023-12-19 Climate Change and Carbon Recycling Surface Chemistry Applications describes the application of surface chemistry methods for carbon capture and recycling in relation to climate change and atmospheric CO₂ levels The text is suitable for online education with both basic and educational descriptions of the climate change process and carbon recycling methods like the adsorption and absorption of CO₂ on solids This book leads to a better understanding of a complex phenomenon and highlight the importance of CO₂ capture and sequestration for the future to enable the utilization of fossil fuels without contributing to atmospheric greenhouse gases Features This unique volume specifically highlights the surface chemistry aspects of carbon capture and recycling CCR Fills the need for an online textbook edition which provides a basic and educational description of the climate change process and carbon capture recycling Describes the application of surface

chemistry methods for carbon capture and recycling such as adsorption absorption of CO₂ Discusses the importance of recycling in reducing and controlling the concentration of carbon dioxide in the air 420 ppm 0.042% Describes the importance of the technology related to carbon capture recycling and sequestration CCS from fossil fuel energy plants as a means of CO₂ control

Towards Sustainability in the Wine Industry by Valorization of Waste Products Patricia Joyce Pamela Zorro Mateus, Siby Inés Garcés Polo, 2023-08-01 This volume in our Sustainability Contributions through Science and Technology series reviews the use of alternative green technologies pressurized liquid and super critical fluid extractions for grape biomass valorization Environmental sustainability and circular economy are discussed in relation to agro industrial waste in the winemaking industry The waste contaminates water and soil and in large quantities it has been related to bad odors a high content of organic matter in water and greenhouse gas emissions over the entire winemaking industry Here the authors illustrate how green extraction of commercially valuable substances can be scaled up at an industrial level Features Reports on waste valorization in the winemaking industry and converting the waste into more useful products including oils antioxidants and other valuable materials Explores research which contributes to environmental sustainability and circular economy in the winemaking industry Describes other ways to reduce the ecological footprint of the wine industry such as using less fertilizer more benign pesticides and reduction of water footprint Proposes options for a potential wine waste biorefining Reviews alternative uses of agro industrial wine wastes as sources of additives for the food cosmetic and pharmaceutical industries

Environmentally Friendly Syntheses Using Ionic Liquids Jairton Dupont, Toshiyuki Itoh, Pedro Lozano, Sanjay Malhotra, 2014-10-15 Increased environmental consciousness within the scientific community has spurred the search for environmentally friendly processes as alternatives to conventional organic solvents In the past two decades numerous advances including the use of ionic liquids have made it possible to develop substitutes for some toxic solvents Ionic liquids are wi

[A Novel Green Treatment for Textiles](#) Chi-wai Kan, 2014-09-02 Industries worldwide have been impacted by environmental regulations economics and ultimately consumers which has led to more thought about the development of sustainable products The textile industry is no exception The preparation dyeing and finishing of textile fibres requires large amounts of water and other chemicals which may be toxic or hazardous Green chemistry along with other green technologies may now play a leading role in this process This book emphasises the importance of plasma treatment as a green and sustainable technology A Novel Green Treatment for Textiles Plasma Treatment as a Sustainable Technology discusses the plasma treatment of textile fibres and its environmental economic and social benefits The book reviews the general properties of textiles and provides a description of the current treatment methods typically used today The author then introduces the concept of plasma and its application in treating textile materials The application of plasma as a pretreatment as well as a treatment in dyeing textiles is discussed The book summarizes the application of plasma treatment in the printing and finishing of textiles Also explored is the concept of

sustainability and its role in the development of plasma treatments in textile wet processing The 12 Principles of Green Chemistry are incorporated throughout the book Role of Green Chemistry in Ecosystem Restoration to Achieve Environmental Sustainability Arun Lal Srivastav,Ajmer Singh Grewal,Markandeya Tiwari,Tien Duc Pham,2023-11-30 Role of Green Chemistry in Ecosystem Restoration to Achieve Environmental Sustainability deals with current challenges of environmental problems along with the approaches of environmental sustainability in alliance with green chemistry The book shows how to lessen the impact on the environment by maintaining a balance between society the environment and the economy all of which are regarded as fundamental pillars of sustainability Furthermore policymakers and scholars will gain insights into how to develop and explore innovative techniques for achieving sustainable development goals This book is unique in the field of environmental sustainability as it is based on green chemistry concepts Addresses root causes of prominent environmental problems including environmental management water sustainability and agricultural sustainability Discusses recent knowledge about the concepts of environmental sustainability Highlights various approaches of green chemistry to achieve sustainable development goals *Applied Chemistry* Siddharth Venkatesh,2025-02-20 Discover the essential aspects of chemistry in various industries with *Applied Chemistry Practical Applications* This comprehensive textbook provides an in depth understanding of fundamental chemical principles and their real world applications Covering a wide range of topics from chemical reactions and materials science to environmental chemistry and sustainable practices it caters to students researchers and professionals Written by experts our book blends theoretical concepts with practical examples offering a solid foundation in key concepts followed by discussions on their applications in industry technology and everyday life We emphasize sustainability green chemistry principles and environmentally friendly practices Clear explanations of complex topics are supported by diagrams illustrations and tables Our book integrates modern research findings and technological advancements in chemistry End of chapter summaries review questions and exercises reinforce learning and facilitate self assessment Supplementary materials including online resources and laboratory exercises enhance the learning experience Whether you re a student seeking an introduction to applied chemistry or a professional looking to expand your knowledge *Applied Chemistry Practical Applications* is an invaluable resource for understanding the practical aspects of chemistry in industry technology and society *Multidisciplinary Approach in Research Area (Volume-6)* Chief Editor- Biplab Audhya, Editor- Ramesh Banothu, Dr. C. Ramesh Kumar, G.Lakshmi Bhuvaneswari Devi, Dr.J.Ahamed Meeran, Dr. Bipin Namdev Bandekar, Varsha Burman,2024-02-19 **Go Green for Environmental Sustainability** Xavier Savarimuthu, SJ,Usha Rao,Mark F. Reynolds,2021-07-13 This book highlights topics ranging from green chemistry and engineering to bioremediation smart technologies and sustainable business practices The common threads running through this volume are the need for urgent action a vision for a sustainable future and the awareness that solutions must be widely accessible and advance the welfare of all nations especially in the face of climate change The authors delineate how we can

protect and restore natural ecosystem potential to achieve environmental sustainability They provide a clear idea of today s environmental challenges and solutions focus on energy use patterns and the reduction of energy consumption advocate for increased environmental awareness and discuss environmental monitoring systems The book contains many domestic and international case studies and showcases visionary ideas in action to illustrate sustainability principles This volume provides an in depth reference for stakeholders from academia government and industry on the latest research in environmental sustainability solutions Inspired by the common wisdom that we do not inherit this Earth from our ancestors but instead borrow it from our children the authors offer solutions to emergent problems This research comprises an important contribution to the global effort to build a more sustainable tomorrow

Heavy Metal Toxicity and Neurodegeneration

Prasann Kumar,Neha Gogia,2025-08-01 Heavy Metal Toxicity and Neurodegeneration delves into the intricate relationship between heavy metals and neurodegenerative diseases It synthesizes and presents the latest research findings shedding light on the mechanisms by which heavy metals cause neuronal damage and contribute to disease progression By integrating various perspectives and collating diverse studies this book serves as an invaluable resource for those seeking to understand the profound impact of heavy metals on neurological health In addition to detailing the mechanisms involved the book highlights the importance of early detection and preventive measures It caters to researchers clinicians policymakers and students offering a comprehensive and accessible overview that bridges the gap between theory and practical application This scholarly work is poised to inform and guide future research and policy decisions in the field of neurodegenerative disease Provides a comprehensive overview of how heavy metals interact with biological systems particularly the nervous system Explains the mechanisms through which metals contribute to neurodegenerative diseases Highlights the public health implications of heavy metal exposure including its impact on vulnerable populations such as children and older people

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