



PGEU Online Event:

Green and Sustainable

Pharmacy in Europe

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Green And Sustainable Pharmacy

SJ Ball



Green And Sustainable Pharmacy:

Green and Sustainable Pharmacy Klaus Kümmerer, Maximilian Hempel, 2010-06-16 Within recent years pharmaceuticals have come into focus as contaminants of the environment see for example Kümmerer K editor Pharmaceuticals in the Environment At the same time the issue of sustainable chemistry gained momentum Bringing both together would result in sustainable pharmacy Sustainable pharmacy is a totally new issue and approach It addresses environmental economical and social aspects of pharmacy In the present stage the focus will be on environmental issues along the whole lifecycle of a pharmaceutical entity That is dealing with resources and energy input but also with waste issues for example during the synthesis and production of an active pharmaceutical ingredient Furthermore it would also look on the compounds themselves and will aim to improve the degradability of the compounds after their use in the environment to reduce the environmental risk caused by pharmaceuticals in the environment Another issue is the people using pharmaceuticals such as pharmacists medical doctors and patients How can they contribute to more efficient use of pharmaceuticals with less environmental burden and less risk for drinking water The book Sustainable Pharmacy will address all these issues and will be the first one dealing with this important topic

Green and Sustainable Medicinal Chemistry

Louise Summerton, Helen F Sneddon, Leonie C Jones, James H Clark, 2016-03-08 Pharmaceutical manufacturing was one of the first industries to recognize the importance of green chemistry with pioneering work including green chemistry metrics and alternative solvents and reagents Today other topical factors also have to be taken into consideration such as rapidly depleting resources high energy costs and new legislation This book addresses current challenges in modern green chemical technologies and sustainability thinking It encompasses a broad range of topics covered by the CHEM21 project Europe's largest public private partnership project which aims to develop a toolbox of sustainable technologies for green chemical intermediate manufacture Divided into two sections the book first gives an overview of the key green chemistry tools guidance and considerations aimed at developing greener processes before moving on to look at cutting edge synthetic methodologies Featuring innovative research this book is an invaluable reference for chemists across academia and industry wanting to further their knowledge and understanding of this important topic

Green Chemistry Strategies for Drug

Discovery Emily A. Peterson, Julie B Manley, 2015-06-11 The incorporation of Green Chemistry is a relatively new phenomenon in the drug discovery discipline since the scale that chemists operate on in drug discovery is smaller than those of process and manufacturing chemistry The necessary metrics are more difficult to obtain in drug discovery due to the diversity of reactions conducted However pharmaceutical companies are realizing that incorporation of green chemistry techniques at earlier stages of drug development can speed the development of a drug candidate Written by experts who have pioneered green chemistry efforts within their own institutions this book provides a practical guide for both academic and industrial labs wanting to know where to start with introducing greener approaches for greatest return on investment

The Editors have taken a comprehensive approach to the topic covering the entire drug discovery process from molecule conception through synthesis formulation and toxicology with specific examples and case studies where green chemistry strategies have been implemented Emerging techniques for performing greener drug discovery chemistry are addressed as well as cutting edge topics like biologics discovery and continuous processing Moreover important surrounding issues such as intellectual property are included This book serves as a practical guide for both academic and industrial chemists who work across the breadth of the drug discovery discipline Ultimately readers will learn how to incorporate green chemistry strategies into their everyday workflow without slowing down their science

Green Chemistry and Applications Aide Sáenz-Galindo, Adali Facio, Raul Rodriguez-Herrera, 2020-11-25 Green chemistry is a work tool that can be applied in different areas such as medicine materials polymers food organic chemistry etc since it was propounded in the early 2000s It has become a viable alternative for care remediation and protection of the environment and has been implemented worldwide In this book the twelve principles of green chemistry are presented in a simple way with examples of the applications of green chemistry in numerous areas showcasing it as an ideal alternative for environmental care It also provides information on current research being implemented at the pilot plant and industrial level The book demonstrates the importance of the use of renewable raw materials the use of catalysis and the implementation of alternative energy sources such as the use of microwaves and ultrasound in different separation and chemical processes

Green Chemistry, 2nd edition Suresh C. Ameta, Rakshit Ameta, 2023-01-10 This second edition of the well received volume addresses a diverse selection of topics in green chemistry highlighting the potential and scope of green chemistry for clean and sustainable development Covering the basics the book discusses the benefits of environmentally friendly chemical practices and their use in industry The book has been updated with new research new advances and timely references Specific topics include eco friendly products green catalysts ionic liquids supercritical fluids green solvents photo Fenton reaction photocatalysis sonochemistry microwave assisted organic synthesis ultrasound assisted reactions green composites green manufacturing processes The current and future impacts of green chemistry have also been discussed in this book The volume will enlighten the scientific community on the advantages the green chemistry which including being both eco friendly and useful on the industrial scale by explaining how green chemistry is put into actual practice

Drug Utilization Research Monique Elseviers, Björn Wettermark, Tanja Mueller, Ria Benko, Marion Bennie, Katarina Gvozdanovic, Mikael Hoffmann, Irina Iaru, Verica Ivanovska, Sean MacBride-Stewart, Elisabetta Poluzzi, Lisa Pont, Hege Salvesen Blix, Gabriel Sanfelix-Gimeno, Gisbert Selke, Katja Taxis, Ana Tomas Petrovic, Indre Treciokiene, Sabine Vogler, 2024-08-12 Towards a better understanding of how medicines are used in society Drug Utilization Research DUR is a discipline which combines aspects of pharmacotherapy epidemiology and health services research into an interdisciplinary set of methods for analyzing and assessing the prescribing dispensing and consumption of medicines It combines both qualitative and quantitative approaches to facilitate

the safe and effective use of pharmaceuticals Drug Utilization Research Methods and Applications provides a comprehensive introduction to this discipline prepared by an international team of authors with broad experience in numerous fields Now reorganized and updated to reflect the latest research and global challenges it is an indispensable resource for understanding the use of pharmaceuticals Readers of the second edition of Drug Utilization Research will find New chapters on methods including more hands on guidance on how to plan and conduct different types of drug utilization A section on specific applications in areas such as psychotropics opioids cancer drugs antibacterials and cardiovascular drugs A new section with case studies illustrating applications of DUR in different continents Detailed treatment of subjects including DUR and health policy DUR in specific populations and many more Drug Utilization Research is ideal for epidemiologists pharmacists physicians nurses and others interested in drug use and its outcomes *Pharmaceutical Residues in Freshwater: Hazards and Policy Responses* Organisation for Economic Co-Operation and Development (OECD),2020-07-15 This report calls for a better understanding of the effects of pharmaceutical residues in the environment greater international collaboration and accountability distribution and policy actions to prevent and remedy emerging concerns Laboratory and field tests show traces of oral contraceptives causing the feminisation of fish and amphibians and residues of psychiatric drugs altering fish behaviour Antimicrobial resistance linked to the overuse of antibiotics has rapidly escalated into a global health crisis Unless adequate measures are taken to manage the risks pharmaceutical residues will increasingly be released into the environment as ageing populations advances in healthcare and intensification of meat and fish production spur the demand for pharmaceuticals worldwide The report outlines a collective life cycle approach to managing pharmaceuticals in the environment A policy mix of source directed use orientated and end of pipe measures involving several policy sectors can help to improve health and protect the environment OECD Studies on Water Pharmaceutical Residues in Freshwater Hazards and Policy Responses OECD,2019-11-13 This report calls for a better understanding of the effects of pharmaceutical residues in the environment greater international collaboration and accountability distribution and policy actions to prevent and remedy emerging concerns Laboratory and field tests show traces of oral contraceptives causing the feminisation of fish and amphibians and residues of psychiatric drugs altering fish behaviour Antimicrobial resistance linked to the overuse of antibiotics has rapidly escalated into a global health crisis **Source Separation and Decentralization for Wastewater Management** Tove A. Larsen,Kai M. Udert,Judit Lienert,2013-02-01 Is sewer based wastewater treatment really the optimal technical solution in urban water management This paradigm is increasingly being questioned Growing water scarcity and the insight that water will be an important limiting factor for the quality of urban life are main drivers for new approaches in wastewater management Source Separation and Decentralization for Wastewater Management sets up a comprehensive view of the resources involved in urban water management It explores the potential of source separation and decentralization to provide viable alternatives to sewer based urban water management During the 1990s several research groups started

working on source separating technologies for wastewater treatment Source separation was not new but had only been propagated as a cheap and environmentally friendly technology for the poor The novelty was the discussion whether source separation could be a sustainable alternative to existing end of pipe systems even in urban areas and industrialized countries Since then sustainable resource management and many different source separating technologies have been investigated The theoretical framework and also possible technologies have now developed to a more mature state At the same time many interesting technologies to process combined or concentrated wastewaters have evolved which are equally suited for the treatment of source separated domestic wastewater The book presents a comprehensive view of the state of the art of source separation and decentralization It discusses the technical possibilities and practical experience with source separation in different countries around the world The area is in rapid development but many of the fundamental insights presented in this book will stay valid Source Separation and Decentralization for Wastewater Management is intended for all professionals and researchers interested in wastewater management whether or not they are familiar with source separation

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Green Processes, Volume 9 ,2014-04-23 The shift towards being as environmentally friendly as possible has resulted in the need for this important reference on the topic of designing safer chemicals Edited by the leading international experts in the field this volume covers such topics as toxicity reducing hazards and biochemical pesticides An essential resource for anyone wishing to gain an understanding of the world of green chemistry as well as for chemists environmental agencies and chemical engineers

Sustainability Science Harald Heinrichs,Pim Martens,Gerd Michelsen,Arnim Wiek,2015-11-26 This textbook provides a comprehensive compilation of conceptual perspectives methodological approaches and empirical insights of inter and transdisciplinary sustainability science Written by an international team of authors from leading sustainability institutions the textbook covers key perspectives and topics of the scientific discourse on sustainable development More than two decades after conceptualizing sustainability as societal guiding vision and regulative idea the necessity of concretizing and realizing sustainability in societal praxis is bigger than ever Sharply improved individual and societal sustainable decision making and action is necessary for a better future of humankind and the planet On that account problem and solution oriented perspectives and competencies are crucial The different chapters assemble an encompassing view of essential foundations and specific areas of research and action in sustainability science and practice The textbook aims at fostering the further establishment of sustainability science in higher education and to enable the next generation of sustainability experts to tackle the challenging and exciting topic of sustainable development

Pharmaceutics: The Science, Practice, and Future of Pharmacy Dr. Alankar Shrivastav ,Dr. Pawan Singh ,2025-06-24 **Eco-friendly**

Functional Polymers Manuel Palencia,Tulio A. Lerma,Viviana Garcés,Mayra A. Mora,Jina M. Martínez,Sixta L.

Palencia,2021-07-25 There is a growing demand for strategies to address the impact of polymers and plastics in ecosystems The principles of green chemistry offer a good source of such strategies Ecofriendly Functional Polymers An Approach from Application Targeted Green Chemistry provides a holistic overview of polymer chemistry development and applications in the context of these sustainability driven principles It encourages researchers to consider the principles of green chemistry environmental impacts and end user needs as integral aspects for consideration at the earliest stages of any design process and draws together key aspects of polymer chemistry organic synthesis experimental design and applications in a single volume Beginning with an authoritative guide to fundamental polymer chemistry and its impact in the current environmental context the book then discusses a range of key theoretical and experimental aspects of designing eco friendly functional

polymers Applications of ecofriendly functional polymers across an entire range of fields are discussed and a selection of case studies highlights the implementation of theoretical and experimental information to address a broad selection of issues Highlights the physicochemical principles of green chemistry and the development of biodegradable and recyclable polymers in this context Compiles key information connecting structural features with properties experimental strategies and appropriate applications into a single volume Discusses requirements and applications across a broad range of fields supported by practical examples

Plant Secondary Metabolites Chemistry and Role Malik Saadullah, 2025-07-02 For centuries the vast and versatile pharmacological effects of medicinal plants and their constituents have played vital roles in biological economic social spiritual cultural and physiological well being This unique text establishes a groundwork in natural product chemistry and phytochemistry by considering the biosynthesis and mechanistic way There is abundant evidence showing that medicinal plants and their secondary metabolites are useful in preventing different ailments and this book discusses this as well as the mechanisms amelioration and biosynthesis of these metabolites It helps readers to understand the computational toxicological cosmetic and nutraceutical aspects of plant secondary metabolites

Ecopharmacovigilance Leobardo Manuel Gómez-Oliván, 2018-06-28 The indiscriminate use of medications and their inadequate disposal have resulted in them being released into the environment via municipal hospital and industrial discharges This volume critically examines the presence of pharmaceuticals in aquatic ecosystems the hazards they entail and how to minimize their impact on the environment The topics covered include historical findings that have made the development of the discipline ecopharmacovigilance possible the main exposure routes fate and life cycle of pharmaceuticals in water occurrence data and the impact on biodiversity methods used for the detection analysis and quantification of pharmaceuticals in water and for their removal current legislation on the presence of emerging contaminants in water biosensors for environmental analysis and monitoring and the measures needed to reduce the existing problems This book is aimed at students academics and research workers in the fields of toxicology ecology microbiology and chemistry as well as those in the pharmaceutical industry health sector professionals and members of government bodies involved in environmental protection and legislation

Health Care and Environmental Contamination, 2018-02-10 Health Care and Environmental Contamination provides a comprehensive explanation of new and evolving topics in the field including discussions on emissions from pharmaceutical manufacturing disposal of medical wastes inputs from sewerage systems effects on aquatic organisms and wildlife indirect effects on human health antibiotic resistance stewardship and treatment These important issues affect the natural environment making this first book on the topic a must have for comprehensive broad and up to date coverage of these issues Written by leading global researchers scientists and practitioners in the field Provides an engaging writing style for specialists and non specialists Ensures a broad balance and critical overview of topics with unbiased information from thought leaders

The Impossibilities of the Circular Economy Harry Lehmann, Christoph

Hinske, Victoire de Margerie, Aneta Slaveikova Nikolova, 2022-11-23 The fifth Factor X publication from the Federal Environment Agency Umweltbundesamt UBA The Impossibilities of the Circular Economy provides an overview of the limits to the circular economy emphasising the relationship between integrated resource use and more systemic leadership management approaches On a European level the book ties into the recent European Green Deal and aims to empower actors across sectors and EU member countries to transition from existing linear models of value capture and expression to more systemic circular solutions of value capture and expression The volume provides a hands on contribution towards building the knowledge and skill sets of current and future decision makers who face these complex systemic crises in their day to day business The book further provides access to best practices from cutting edge research and development findings which will empower decision makers to develop a more sustainable and equitable economy Providing solutions for a more sustainable economy this book is essential reading for scholars and students of natural resource use sustainable business environmental economics and sustainable development as well as decision makers and experts from the fields of policy development industry and civil society The Open Access version of this book available at www.taylorfrancis.com has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license [Green Techniques for Organic Synthesis and Medicinal Chemistry](#) Wei Zhang, Berkeley W. C. Cue, 2012-05-10 An updated overview of the rapidly developing field of green engineering techniques for organic synthesis and medicinal chemistry Green chemistry remains a high priority in modern organic synthesis and pharmaceutical R D with important environmental and economic implications This book presents comprehensive coverage of green chemistry techniques for organic and medicinal chemistry applications summarizing the available new technologies analyzing each technique's features and green chemistry characteristics and providing examples to demonstrate applications for green organic synthesis and medicinal chemistry The extensively revised edition of Green Techniques for Organic Synthesis and Medicinal Chemistry includes 7 entirely new chapters on topics including green chemistry and innovation green chemistry metrics green chemistry and biological drugs and the business case for green chemistry in the generic pharmaceutical industry It is divided into 4 parts The first part introduces readers to the concepts of green chemistry and green engineering global environmental regulations green analytical chemistry green solvents and green chemistry metrics The other three sections cover green catalysis green synthetic techniques and green techniques and strategies in the pharmaceutical industry Includes more than 30% new and updated material plus seven brand new chapters Edited by highly regarded experts in the field Berkeley Cue is one of the fathers of Green Chemistry in Pharma with backgrounds in academia and industry Brings together a team of international authors from academia industry government agencies and consultancies including John Warner one of the founders of the field of Green Chemistry Green Techniques for Organic Synthesis and Medicinal Chemistry Second Edition is an essential resource on green chemistry technologies for academic researchers R D professionals and students working in organic chemistry and medicinal chemistry

Management of Pharmaceutical Household Waste Limiting Environmental Impacts of Unused or Expired Medicine

OECD,2022-05-10 Pharmaceutical household waste from expired or unused medicine does not only offer zero therapeutic benefit but also contributes to environmental pollution when disposed of via improper routes Medicines discarded in sinks and flushed down toilets enter sewage waters and if not filtered out leak into aquatic systems **Water and Wastewater**

Management Müfit Bahadır,Andreas Haarstrick,2022-03-25 This volume addresses the situation of water and wastewater management from a global angle underpinned by selected case studies Without doubt water and wastewater management are among the greatest challenges of our century and there is also no doubt that the challenges posed by climate change will become even greater However most efforts especially in developing countries but also in the so called developed countries have been less than optimal or not optimal at all In particular there are still too many people who have to live without clean water and decent sanitation Today 2 2 billion people lack access to safely managed drinking water and wastewater and 4 2 billion people lack safely managed sanitation services The question why this is so and why in many cases in developing countries is discussed in this book among other urgent water and wastewater management issues The publication of this book is the start of a book series that in more detail critically reviews discusses and analyzes the water and wastewater situation and management in different regions and countries worldwide

The Enigmatic Realm of **Green And Sustainable Pharmacy**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Green And Sustainable Pharmacy** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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Green And Sustainable Pharmacy Introduction

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