

Alasdair H. Neilson
Editor

PAHs and Related Compounds Biology

The Handbook of
Environmental Chemistry

3 • J



Springer

Pahs And Related Compounds Biology

Hajime Akimoto, Hiroshi Tanimoto



PAHs And Related Compounds Biology:

PAHs and Related Compounds Alasdair H. Neilson, O. Hutzinger, 1997-12-17 The volumes 3 I and 3 J present a modern account of polycyclic aromatic hydrocarbons PAHs and their heterocyclic analogs in the environment The authors are internationally well recognized scientists belonging to those working presently in the frontline of the different subfields of this interdisciplinary area of environmental science they give an integrated thorough overview on this hot topic Extensive cross referencing between chapters provides the readers with an easy access to all major areas Due to the huge amount of material the text is published in two volumes 3 I and 3 J It is expected that both volumes will soon become a major source of information and inspiration for all researchers actively working in PAH environmental chemistry or ecology **PAHs and**

Related Compounds Alasdair N. Neilson, 2013-11-11 Environmental Chemistry is a relatively young science Interest in this subject however is growing very rapidly and although no agreement has been reached as yet about the exact content and limits of this interdisciplinary discipline there appears to be increasing interest in seeing environmental topics which are based on chemistry embodied in this subject One of the first objectives of Environmental Chemistry must be the study of the environment and of natural chemical processes which occur in the environment A major purpose of this series on Environmental Chemistry therefore is to present a reasonably uniform view of various aspects of the chemistry of the environment and chemical reactions occurring in the environment The industrial activities of man have given a new dimension to Environmental Chemistry We have now synthesized and described over five million chemical compounds and chemical industry produces about hundred and fifty million tons of synthetic chemicals annually We ship billions of tons of oil per year and through mining operations and other geophysical modifications large quantities of inorganic and organic materials are released from their natural deposits Cities and metropolitan areas of up to 15 million inhabitants produce large quantities of waste in relatively small and confined areas Much of the chemical products and waste products of modern society are released into the environment either during production storage transport use or ultimate disposal These released materials participate in natural cycles and reactions and frequently lead to interference and disturbance of natural systems

Polycyclic Aromatic Hydrocarbons Kazuichi Hayakawa, 2018-02-05 This book reviews Polycyclic Aromatic Hydrocarbons PAHs and Nitropolycyclic Aromatic Hydrocarbons NPAHs contamination in the context of environmental pollution in Asia It is comprised of the following sections 1 Fundamental Chemistry and General Characteristics 2 Analytical Methods 3 Emission Source and Atmospheric Behavior 4 Atmospheric Polycyclic Aromatic Hydrocarbons and PM_{2.5} 5 Polycyclic Aromatic Hydrocarbons in Marine Environments 6 Metabolic Activation Toxicities and 7 Environmental Standards and Guidelines This volume concentrates on the Far East due to the massive consumption of coal and petroleum in China which has led to considerable levels of air pollution High concentration of atmospheric PM_{2.5} in Beijing have been reported since January 2013 and exposure to such high concentrations may cause respiratory cardiac and lung diseases Gathering

contributions from international experts this volume provides a valuable reference guide for global researchers and students interested in learning from the East Asian experience *Isotope Geochemistry* Heinrich D Holland, Karl K.

Turekian, 2010-09-27 After the discovery that elements were commonly composed of isotopes there developed a range of studies of the variability of isotopic compositions in Earth materials which was able to add to our understanding of Earth processes and history This collection of chapters from the Treatise on Geochemistry describes the range of isotopic studies The chapters are grouped into the following categories light stable isotopes radiogenic tracers noble gases and radioactive tracers The first three groups depend on mass spectrometric measurements The section on radioactive tracers employs both radioactive counting techniques and the newly developed accelerator mass spectrometric techniques Comprehensive interdisciplinary and authoritative content selected by leading subject experts Robust illustrations figures and tables Affordably priced sampling of content from the full Treatise on Geochemistry Chemical, Physical, and Biological Properties of Compounds Present at Hazardous Waste Sites Clement Associates, 1985 Treatise on Geochemistry

, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume **Environmental Health Perspectives**, 1993 **Biomarkers**, 1996 Handbook on Biodegradation and Biological Treatment of Hazardous Organic Compounds M.H. van Agteren, Sytze Keuning, D.

Janssen, 2013-04-17 The introduction of synthetic organic chemicals into the environment during the last few decades has given rise to major concern about the ecotoxicological effects and ultimate fate of these compounds The pollutants that are considered to be most hazardous because of their intrinsic toxicity high exposure level or recalcitrant behavior in the

environment have been placed on blacklists and other policy priority lists The fate of synthetic compounds that enter the environment is mainly determined by their rate of biodegradation which therefore also has a major effect on the degree of bioaccumulation and the risk of ecotoxicological effects The degree and rate of biodegradation is also of critical importance for the feasibility of biological techniques to clean up contaminated sites and waste streams The biodegradation of xenobiotics has thus been the subject of numerous studies which resulted in thousands of publications in scientific journals books and conference proceedings These studies led to a deeper understanding of the diversity of biodegradation processes As a result it has become possible to enhance the rate of degradation of recalcitrant pollutants during biological treatment and to design completely new treatment processes At present much work is being done to expand the range of pollutants to which biodegradation can be applied and to make treatment techniques less expensive and better applicable for waste streams which are difficult to handle

Synergic Influence of Gaseous, Particulate, and Biological Pollutants on Human Health Jozef S. Pastuszka, 2015-11-05 Synergic Influence of Gaseous Particulate and Biological Pollutants on Human Health is a unique merger of two divergent parts The first part is a presentation of the existing knowledge on the characteristics of basic air pollutants and their documented impact on human health The focus is on the main gaseous airborne particles including fiber

PAHs Peter E. T. Douben, 2003-07-25 Polycyclic aromatic hydrocarbons PAHs or polyarenes are one of the largest and most structurally diverse class of organic molecules known High percentages of polyarenes representing a wide range of molecular sizes and structural types are present in coal tars and petroleum residues The major sources of PAHs are crude oil coal and oil shale The fuels produced from these fossil sources constitute the primary source of energy for the industrial nations of the world and the petrochemicals from these raw materials are the basis of the synthetic fibre and plastics industries PAHs are however widespread pollutants and their impact on the environment and human health must be monitored and controlled This book will review and assess our scientific understanding of the ecological exposure and effects PAHs have in different environments and habitats It will accomplish this by taking the recipients of the pollution in the environment as starting points and working its way back through pathways to access what is required for our understanding of effects and rationale for control Although this book will concentrate on ecological exposure of PAHs the general impacts of PAHs on human populations will be touched upon It is thought to be the first book to focus on the ecological aspects of PAHs

Energy Research Abstracts, 1990 Handbook of Air Quality and Climate Change Hajime Akimoto, Hiroshi Tanimoto, 2023-09-27 This handbook covers the air quality air pollution from the viewpoints of causing impacts on human ecosystem health and climate change Traditionally air pollution has been a concern mainly in terms of its impacts on human health and it is still an immediate public and governmental concern in most Asian countries However in recent years so called extreme weather events such as stronger tropical cyclones flooding drought and other phenomena have been manifested causing tremendous losses of human lives and properties Importantly climate models tell us that such extreme

weather events are actually induced by anthropogenic global warming It has been pointed out that mitigation or alleviation of such climate change leading to the extreme weather events in the next 30 years can be possible only by reducing air pollutants with positive radiative forcing such as ozone or methane which are called short lived climate pollutants SLCPs Here concerns about mitigation of air pollutants from the points of human health and climate change have merged This book covers different kinds of air pollutants and radiative forcers and how they can be measured It also mentions the situation of air pollutants in different continents and their regional impacts to human health environment and economy as well as their link to extreme weather events The book presents how the air pollution and climate change can be mitigated and how clean air technologies and international initiatives for co controlling air pollution and climate change have been developed

Research Paper FPL-RP ,1986 **Biological Report** ,1986 Special Reports Robert Snyder,1993 **The Biology of Particles in Aquatic Systems, Second Edition** Roger S. Wotton,2020-10-28 The Biology of Particles in Aquatic Systems Second Edition presents the latest information on particulate and dissolved matter found in aquatic habitats ranging from small streams to oceans Only by studying this matter can we gain an understanding of the functioning of aquatic ecosystems and thus be able to predict changes that may occur as these systems become stressed Updated and extensively revised this new edition covers such topics as classification of particulate and dissolved matter origin and formation of particles aquatic systems factors affecting particle aggregation methods for capturing particles by benthic and planktonic animals and the use of particulate and dissolved organic matter as food **Fungi Bio-prospects in Sustainable Agriculture, Environment and Nano-technology** Vijay Kumar Sharma,Maulin P. Shah,Shobhika Parmar,Ajay Kumar,2020-10-24 Fungi Bio prospects in Sustainable Agriculture Environment and Nanotechnology Volume Two Extremophilic Fungi and Myco mediated Environmental Management explores varied aspects of fungal biology and their relevance in microbiology and agriculture thus allowing for better insights on basic and advanced biotechnological application in human welfare and sustainable agriculture Chapters throw light on different sectors of fungi including fungi in extreme circumstances bioremediation complex and toxic effluents and mycoremediation The book was designed to explore the possibility of huge fungal diversity for present and future generation in different sectors of human life Volume Two focuses on extremophilic fungi and myco mediated environmental management Summarizes various aspects of fungi in the field of microbiology sustainable agriculture nano technology and environment Describes the molecular approaches and gene expression of fungi Provides a deeper understanding of fungi that could be articulated in various fields **Remediation of Petroleum Contaminated Soils** Eve Riser-Roberts,2020-11-25 This book combines the results of current research with essential background material to provide complete in depth coverage of every aspect of in situ and ex situ bioremediation as well as an extensive overview of the physical and chemical processes currently available for treating petroleum contaminated soils Critical information has been collected and assembled under one cover to provide a convenient reference for anyone who must contend with this

worldwide problem Remediation of Petroleum Contaminated Soils Biological Physical and Chemical Processes describes how to optimize the biodegradation of petroleum hydrocarbons in soil water systems It reports on the susceptibility of various petroleum components to biodegradation by microorganisms and considers all groups of microorganisms for their potential contributions The book also deals with problem areas such as the transport of organisms oxygen or nutrients throughout the subsurface as well as biodegradation of polynuclear aromatic hydrocarbons PAHs and nonaqueous phase liquids NAPLs In addition the book presents a variety of methods for monitoring bioremediation This reference discusses current soil remediation processes and includes many innovative approaches It also investigates means of controlling volatile organic compounds VOCs and leachate and addresses methods for collecting and treating these secondary waste streams The expansive coverage of this book will furnish readers with a wide range of options for developing treatment strategies and for customizing procedures for specific requirements

Biological Monitoring M. E. Conti, 2008 The aim of this book is to provide the reader with a basic understanding of the use of bioindicators both in assessing environmental quality and as a means of support in environmental impact assessment EIA procedures

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