

# Refractory Organic Substances in the Environment

Edited by F. H. Frimmel, G. Abbt-Braun, K. G. Heumann,  
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# Refractory Organic Substances In The Environment

**Warren J. Lyman**



## **Refractory Organic Substances In The Environment:**

*Refractory Organic Substances in the Environment* Fritz Hartmann Frimmel, Gudrun Abbt-Braun, Klaus G.

Heumann, Berthold Hock, Hans-Dietrich Lüdemann, Michael Spiteller, 2008-01-08 Refractory organic substances ROS are an essential part of the biogeochemical carbon cycle Wherever there is life on earth there will also be ROS in the form of poorly biodegradable leftovers of organisms and as a source for new life Furthermore it is now beyond doubt that ROS are closely related to the carbon intensity identified as one of the driving forces in the dynamics of green house gas emission such that ROS play a key role in sustainable development Refractory Organic Substances in the Environment provides the results of six years of top priority research funded by the Deutsche Forschungsgemeinschaft DFG This research program investigated the structure and function of ROS in different parts of the environment from a chemical physical biological and soil scientific point of view It included the first systematic study of a set of reference samples from Central Europe originating from a bog lake soil seepage water groundwater and from the wastewaters of a brown coal processing plant and a secondary effluent Thus this work not only highlights the structural features obtained from the application of advanced analytical tools but also the function in anthropogenically influenced aquatic systems and soils Of special interest to students and researchers in life sciences Refractory Organic Substances in the Environment F. H. Frimmel, 2000

**Biophysico-Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems** Nicola Senesi, Baoshan Xing, Pan Ming Huang, 2009-07-23 An up to date resource on natural nonliving organic matter Bringing together world renowned researchers to explore natural nonliving organic matter NOM and its chemical biological and ecological importance Biophysico Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems offers an integrated view of the dynamics and processes of NOM This multidisciplinary approach allows for a comprehensive treatment encompassing all the formation processes properties reactions environments and analytical techniques associated with the latest research on NOM After briefly outlining the historical background current ideas and future prospects of the study of NOM the coverage examines The formation mechanisms of humic substances Organo clay complexes The effects of organic matter amendment Black carbon in the environment Carbon sequestration and dynamics in soil Biological activities of humic substances Dissolved organic matter Humic substances in the rhizosphere Marine organic matter Organic matter in atmospheric particles In addition to the above topics the coverage includes such relevant analytical techniques as separation technology analytical pyrolysis and soft ionization mass spectrometry nuclear magnetic resonance EPR FTIR Raman UV visible adsorption fluorescence and X ray spectroscopies and thermal analysis Hundreds of illustrations and photographs further illuminate the various chapters An essential resource for both students and professionals in environmental science environmental engineering water science soil science geology and environmental chemistry Biophysico Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems provides a unique combination of the latest

discoveries developments and future prospects in this field      *Use of Humic Substances to Remediate Polluted Environments: From Theory to Practice* Irina V. Perminova, Kirk Hatfield, Norbert Hertkorn, 2006-04-07 Effective remediation of polluted environments is a priority in both Eastern and Western countries In the U S and Europe remediation costs generally exceed the net economic value of the land As a result scientists and engineers on both sides of the Atlantic have aggressively tried to develop novel technologies to meet regulatory standards at a fraction of the costs In situ remediation shows considerable promise from both technical and economic perspectives In situ technologies that deploy natural attenuating agents such as humic substances HS may be even more cost effective Numerous studies have shown humics capable of altering both the chemical and the physical speciation of the ecotoxins and in turn attenuate potential adverse environmental repercussions Furthermore the reserves of inexpensive humic materials are immense Which suggests HS portend great promise as inexpensive amendments to mitigate the environmental impacts of ecotoxins and as active agents in remediation To elucidate emerging concepts of humics based remediation technologies we organized the NATO Advanced Research Workshop ARW entitled Use of humates to remediate polluted environments from theory to practice held on September 23-29 2002 in Zvenigorod Russia see the web site <http://www.mgumus.chem.msu.ru/arw>      *Humic Matter in Soil and the Environment* Kim H. Tan, 2014-06-10 The field of humic matter research has undergone drastic changes in concepts and principles since the first edition of *Humic Matter in Soil and the Environment Principles and Controversies* was published more than a decade ago Still the only book of its kind specifically addressing humic acid principles and controversies the Second Edition presents the newest advances in humic acid science Eleven new and rewritten chapters replace the original nine with updated material representing modern humic acid chemistry This includes the delineation of organic matter humus and humic matter The book begins by considering organic matter as a whole describing terrestrial and aquatic organic matter It examines humus as a mixture of humified and nonhumified organic matter focusing also on the importance of the nonhumified fraction plant biopolymers in their original or slightly decomposed forms as raw materials for formation of the humic fraction The book then presents concepts of humic matter referred to as humic acid covering a range of ideas from traditional views of biopolymers to the latest concepts based on micellar supramolecular and nanotube chemistry The author presents the major pathways of humification and discusses humification theories He also examines the extraction isolation and fractionation of humic matter The book reviews the chemical composition and model structures of humic acids the chemical and spectroscopic characterization of humic substances and the electrochemical properties of humic matter It also addresses the agronomic environmental and industrial including pharmaceutical importance of humic matter This revised and updated edition continues the tradition of providing comprehensive coverage of the genesis extraction properties and impacts of humic matter      *Mobility and Degradation of Organic Contaminants in Subsurface Environments* Warren J. Lyman, 2020-12-17 This book identifies the most important rules governing transport partitioning

retention and transformation of leaked motor fuels in the underground environment It examines micro scale fate and transport processes as a means toward promoting a better understanding of larger scale movement of contaminants Environmental scientists engineers consultants and managers will find Mobility and Degradation of Organic Contaminants in Subsurface Environments to be a useful technical handbook Less experienced users will appreciate its in depth explanations of the fate and transport processes vital to effective remedial response More experienced users will use the book as a source of information data and equations to support quantitative assessments of pollutant fate and transport 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 **Handbook of Environmental Fate and Exposure Data for Organic Chemicals** Philip H. Howard,1989-04-30 This 5 volume set allows you to assess the health and environmental effects of chemicals by determining the routes of exposure of the chemical to sensitive organisms Environmental Fate and Exposure of Organic Chemicals provides relevant facts on how individual chemicals behave in the environment and how humans and environmental organisms are exposed to the chemicals during their production rise transport and disposal Each chemical is prepared by one of the best known organizations in environmental fate and exposure and is peer reviewed by a panel of expert scientists The information on each chemical includes all experimental values and references for physical properties all chemical fate studies and all available monitoring data and interpretative summaries **An Index of Refractory Organics** T. B. Helgott,F. L. Hart,R. G. Bedard,1977 Handbook of Elemental Speciation II ,2005-09-01 Written by an internationally recognized group of editors and contributors Handbook of Elemental Speciation Volume 2 provides a

comprehensive cross disciplinary presentation of the analytical techniques involved in speciation Comprehensive coverage of key elements and compounds in situ Addresses the analysis and impact of these elements and compounds e g arsenic lead copper iron halogens etc in food the environment clinical and occupational health Detailed methodology and data are reported as well as regulatory limits Includes general introduction on the impact in these key areas **Scientific and Technical Aerospace Reports** ,1994-07 **EPA-600/2** ,1977-08 **Environmental Chemistry, Eighth Edition** Stanley E. Manahan,2004-08-26 *Environmental Chemistry Eighth Edition* builds on the same organizational structure validated in previous editions to systematically develop the principles tools and techniques of environmental chemistry to provide students and professionals with a clear understanding of the science and its applications Revised and updated since the publication of the best selling Seventh Edition this text continues to emphasize the major concepts essential to the practice of environmental science technology and chemistry while introducing the newest innovations to the field The author provides clear explanations to important concepts such as the anthrosphere industrial ecosystems geochemistry aquatic chemistry and atmospheric chemistry including the study of ozone depleting chlorofluorocarbons The subject of industrial chemistry and energy resources is supported by pertinent topics in recycling and hazardous waste Several chapters review environmental biochemistry and toxicology and the final chapters describe analytical methods for measuring chemical and biological waste New features in this edition include enhanced coverage of chemical fate and transport industrial ecology particularly how it is integrated with green chemistry conservation principles and recent accomplishments in sustainable chemical science and technology a new chapter addressing terrorism and threats to the environment and the use of real world examples

*Control of Organic Substances in Water and Wastewater* ,1983 *Inventory of Federal Energy-related Environment and Safety Research for ...* ,1979 **Waste Management and the Environment IV** M. Zamorano,2008 This book brings together papers from the Fourth International Conference on Waste Management and the Environment and will be of interest to environmental engineers local authority representatives waste disposal experts research scientists in the area of waste management civil engineers and chemical engineers *Inventory of Federal Energy-related Environment and Safety Research for FY 1978* ,1979 **Inventory of Federal Energy-related Environment and Safety Research for FY 1978: Project listings and indexes** ,1979 *Biophysico-Chemical Processes of Heavy Metals and Metalloids in Soil Environments* Antonio Violante,Pan Ming Huang,Geoffrey M. Gadd,2008-02-13 Written by a multidisciplinary group of soil and environmental scientists *Biophysico Chemical Processes of Heavy Metals and Metalloids in Soil Environments* provides the scientific community with a critical qualitative and quantitative review of the fundamentals of the processes of pollutants in soil environments The book covers pollutants speciation mobility bioavailability and toxicity and impacts on development of innovative restoration strategies In addition the development of innovative remediation strategies for polluted soils is covered *Encyclopedia of Environmental Management, Four Volume Set* Sven Erik Jorgensen,2012-12-13 Winner of an

Outstanding Academic Title Award from CHOICE Magazine Encyclopedia of Environmental Management gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about specific pollution and management issues Edited by the esteemed Sven Erik J rgensen and an advisory board of renowned specialists this four volume set shares insights from more than 500 contributors all experts in their fields The encyclopedia provides basic knowledge for an integrated and ecologically sound management system Nearly 400 alphabetical entries cover everything from air soil and water pollution to agriculture energy global pollution toxic substances and general pollution problems Using a topical table of contents readers can also search for entries according to the type of problem and the methodology This allows readers to see the overall picture at a glance and find answers to the core questions What is the pollution problem and what are its sources What is the big picture or what background knowledge do we need How can we diagnose the problem both qualitatively and quantitatively using monitoring and ecological models indicators and services How can we solve the problem with environmental technology ecotechnology cleaner technology and environmental legislation How do we address the problem as part of an integrated management strategy This accessible encyclopedia examines the entire spectrum of tools available for environmental management An indispensable resource it guides environmental managers to find the best possible solutions to the myriad pollution problems they face Also Available Online This Taylor Francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact us to inquire about subscription options and print online combination packages US Tel 1 888 318 2367 email e reference taylorandfrancis com International Tel 44 0 20 7017 6062 email online sales tandf co uk

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