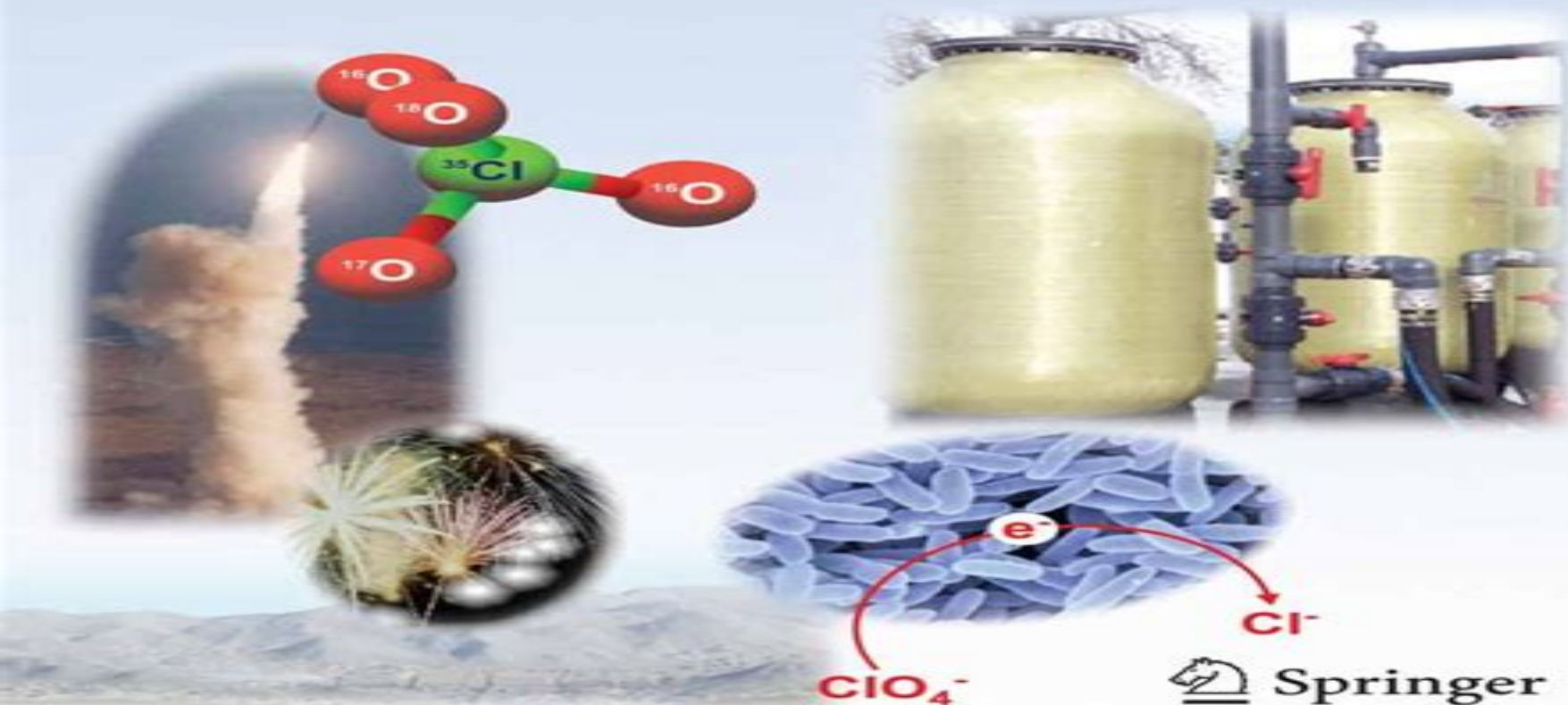


PERCHLORATE

Environmental Occurrence, Interactions and Treatment

Edited by
Baohua Gu and John D. Coates



Perchlorate Environmental Occurrence Interactions And Treatment

Christos Comninellis, Guohua Chen



Perchlorate Environmental Occurrence Interactions And Treatment:

Perchlorate Baohua Gu, John D. Coates, 2006-07-02 Perchlorate is a widespread environmentally persistent contaminant recently discovered in U S groundwater and drinking water supplies This book summarizes the most current knowledge and understandings of the extent and potential sources of perchlorate contamination its behavior exposure pathways in the environment toxicology and risk assessment and recent advances in treatment technologies for removing perchlorate Its natural occurrence and its unique isotopic signature between natural and anthropogenic sources and novel detection techniques are discussed A description of the perchlorate chemistry microbiology biochemistry genetics geochemical occurrences and environmental forensics toxicology and risk assessment to engineering solutions and policy is provided Also included are remediation technologies and monitoring tools for cleaning up contaminated sites including bioremediation selective and regenerable ion exchange modified granular activated carbon and catalyzed destruction [In Situ](#)

[Bioremediation of Perchlorate in Groundwater](#) Hans F. Stroo, C. Herb Ward, 2008-12-02 In the late 1970s and early 1980s our nation began to grapple with the legacy of past disposal practices for toxic chemicals With the passage in 1980 of the Comprehensive Environmental Response Compensation and Liability Act CERCLA commonly known as Superfund it became the law of the land to remediate these sites The U S Department of Defense DoD the nation s largest industrial organization also recognized that it too had a legacy of contaminated sites Historic operations at Army Navy Air Force and Marine Corps facilities ranges manufacturing sites shipyards and depots had resulted in widespread contamination of soil groundwater and sediment While Superfund began in 1980 to focus on remediation of heavily contaminated sites largely abandoned or neglected by the private sector the DoD had already initiated its Installation Restoration Program in the mid 1970s In 1984 the DoD began the Defense Environmental Restoration Program DERP for contaminated site assessment and remediation Two years later the U S Congress codified the DERP and directed the Secretary of Defense to carry out a concurrent program of research development and demonstration of innovative remediation technologies As chronicled in the 1994 National Research Council report Ranking Hazardous Waste Sites for Remedial Action our early estimates on the cost and suitability of existing technologies for cleaning up contaminated sites were wildly optimistic Original estimates in 1980 projected an average Superfund cleanup cost of a mere 3 [Encyclopedia of Interfacial Chemistry](#) , 2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing readers the latest developments in the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the

intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions **Ion**

Exchange and Solvent Extraction Arup K. SenGupta,2016-04-19 Over the past four decades notable advancements in the theory and application of ion exchange science uncovered a wealth of knowledge that fueled new scientific pursuits and created synergies with myriad scientific endeavors Today pioneers continue to break new ground by synthesizing novel materials and merging the interdisciplinary fields of sc **Toxicological profile for perchlorates** ,2008 The ATSDR

toxicological profile succinctly characterizes the toxicology and adverse health effects information for the toxic substance described therein Each peer reviewed profile identifies and reviews the key literature that describes a substance s toxicological properties Profiles are updated on a periodic basis and released for a public comment period For more information visit ATSDR *Environmental Forensics* R E Hester,R M Harrison,2008-06-27 Environmental forensics is a

combination of analytical and environmental chemistry which is useful in the court room context It therefore involves field analytical studies and both data interpretation and modelling connected with the attribution of pollution events to their causes Recent decades have seen a burgeoning of legislation designed to protect the environment and as the costs of environmental damage and clean up are considerable not only are there prosecutions by regulatory agencies but the courts are also used as a means of adjudication of civil damage claims relating to environmental causes or environmental degradation As a result is the increasing number of prosecutions of companies who have breached regulations for environmental protection and in civil claims relating to harm caused by excessive pollutant releases to the environment Such cases can become extremely protracted as expert witnesses provide their sometimes conflicting interpretations of environmental measurement data and their meaning It is in this context that environmental forensics is developing as a specialism leading to greater formalisation of investigative methods which should lead to more definitive findings and less scope for experts to disagree Now a significant subject in its own right at least one journal devoted to the field and a number of degree courses have sprung up As a result of the topicality and rapid growth of the subject area is the publication of this book the 26th volume in the highly acclaimed Issues in Environmental Science and Technology Series This volume contains authoritative articles by a number of the leading practitioners across the globe in the environmental forensics field and aims to cover some of the main techniques and areas to which environmental forensics are being applied The content is comprehensive and describes a number of the key areas within environmental forensics topics covered by the authors include Source identification issues Microbial techniques Metal contamination and methods of assigning liability The use of isotopes to determine sources and their applications Molecular biological methods Hydrocarbon fingerprinting techniques Oil chemistry and key compound identification The emerging role of environmental forensics in groundwater pollution Additionally the volume considers specific pollutants and long lived pollutants of groundwater such as halocarbons which

have presented particular problems and which are described in some depth as well as the way in which chemical degradation processes can lead to compositional changes which provide valuable information The book provides a comprehensive overview of many of the key areas of environmental forensics written by some of the leading experts in the field It will be both of specialist use to those seeking expert insights into the field and its capabilities as well as of more general interest to those involved in both environmental analytical science and environmental law

Green Functionalized Nanomaterials for Environmental Applications Uma Shanker, Manviri Rani, Chaudhery Mustansar Hussain, 2021-08-20

Green nanomaterials are classed as nanomaterials with no environmentally harmful toxic properties The photocatalysis of nanomaterials involves photo conduction value in efficient removal degradation of noxious pollutants Green nanotechnology has objectives for the development of products and processes which are environmentally friendly economically sustainable safe energy efficient and produce little waste or emissions Such products and processes are based on renewable materials and or have a low net impact on the environment Green functionalized nanomaterials formed by a combination of nanomaterials with natural materials or are derived through a green source are the new trends in the remediation of pollutants in environmental industries This has the effect of making photoactive nanomaterials work under UV sunlight radiation in order to produce reactive radical species that rapidly remove pollutants by redox mechanism Green Functionalized Nanomaterials for Environmental Applications focuses on recent developments in the area of fabrication of green nanomaterials and their properties It also looks at ways of lowering the risk of exposure of green functionalized nanomaterials This needs to be pursued in the future for investigating and assessing health risks which may be due to exposure to green nanomaterials It is an important reference source for all those seeking to improve their understanding of how green functionalized nanomaterials are being used in a range of environmental applications as well as considering potential toxicity implications Highlights innovative industrial technologies for green functionalized nanomaterials Covers major fabrication techniques for sustainable functionalized nanomaterials Shows how sustainable functionalized nanomaterials are being developed for commercial applications

Handbook of Environmental Isotope Geochemistry

Mark Baskaran, 2011-10-13 Applications of radioactive and stable isotopes have revolutionized our understanding of the Earth and near earth surface processes The utility of the isotopes are ever increasing and our sole focus is to bring out the applications of these isotopes as tracers and chronometers to a wider audience so that they can be used as powerful tools to solve environmental problems New developments in this field remain mostly in peer reviewed journal articles and hence our goal is to synthesize these findings for easy reference for students faculty regulators in governmental and non governmental agencies and environmental companies While this volume maintains its rigor in terms of its depth of knowledge and quantitative information it contains the breadth needed for wide variety problems and applications in the environmental sciences This volume presents all of the newer and older applications of isotopes pertaining to the environmental problems in

one place that is readily accessible to readers This book not only has the depth and rigor that is needed for academia but it has the breadth and case studies to illustrate the utility of the isotopes in a wide variety of environments atmosphere oceans lakes rivers and streams terrestrial environments and sub surface environments and serves a large audience from students and researchers regulators in federal state and local governments and environmental companies

Electrochemistry for the Environment Christos Comninellis,Guohua Chen,2009-10-15 Wastewater treatment technology is undergoing a profound transformation due to the fundamental changes in regulations governing the discharge and disposal of h arduous pollutants Established design procedures and criteria which have served the industry well for decades can no longer meet the ever increasing demand Toxicity reduction requirements dictate in the development of new technologies for the treatment of these toxic pollutants in a safe and cost effective manner Fo most among these technologies are electrochemical processes While electrochemical technologies have been known and utilized for the tre ment of wastewater containing heavy metal cations the application of these p cesses is only just a beginning to be developed for the oxidation of recalcitrant organic pollutants In fact only recently the electrochemical oxidation process has been rec nized as an advanced oxidation process AOP This is due to the development of boron doped diamond BDD anodes on which the oxidation of organic pollutants is mediated via the formation of active hydroxyl radicals

Oilfield Microbiology Torben Lund Skovhus,Corinne Whitby,2019-03-29 Microorganisms can be both beneficial and harmful to the oil and gas industry and therefore there is an increasing need for the oil industry to characterize quantify and monitor microbial communities in real time Oilfield Microbiology offers a fundamental insight into how molecular microbiological methods have enabled researchers in the field to analyze and quantify in situ microbial communities and their activities in response to changing environmental conditions Such information is fundamental to the oil industry to employ more directed cost effective strategies to prevent the major problems associated with deleterious microbial activities e g souring and biocorrosion as well as to encourage beneficial microbe activity e g oil bioremediation The aim of the book is to understand how the technological advances in molecular microbiological methods over the last two decades are now being utilized by the oil industry to address the key issues faced by the sector This book contains a comprehensive collection of chapters written by invited experts in the field from academia and industry and provides a solid foundation of the importance of microbes to the oil and gas industry It is aimed at microbial ecologists molecular biologists operators engineers chemists and academics involved in the sector

The Geochemistry of Stable Chlorine and Bromine Isotopes Hans Eggenkamp,2025-01-01 This book provides detailed information on the history analysis and applications of chlorine and bromine isotope geochemistry This largely extended 2nd edition has incorporated most research published between 2014 and 2023 and contains also significantly more information on the earliest experimental data obtained during the early 20th century This 2nd edition describes isotope studies done on terrestrial samples and also incorporates the fascinating chlorine and bromine isotope ratio investigations obtained from

extraterrestrial and astronomical studies and thus it shows the full extent of the current status of knowledge of this subject

Ion Exchange Technology II Dr. Inamuddin, Mohammad Luqman, 2012-06-05 Ion exchange Technology II Applications presents an overview of the numerous industrial applications of ion exchange materials In particular this volume focuses on the use of ion exchange materials in various fields including chemical and biochemical separations water purification biomedical science toxic metal recovery and concentration waste water treatment catalysis alcohol beverage sugar and milk technologies pharmaceuticals industry and metallurgical industries This title is a highly valuable source not only to postgraduate students and researchers but also to industrial R D specialists in chemistry chemical and biochemical technology as well as to engineers and industrialists

Contaminants in Drinking and Wastewater Sources Manish Kumar, Daniel D. Snow, Ryo Honda, Santanu Mukherjee, 2020-06-29 This volume takes a multidisciplinary approach to study and evaluate the global human vulnerability to the exposure of contaminants of emerging concern CECs in the natural environment It provides a comprehensive resource on structurally diverse groups of chemical compounds that have adverse effects on the aquatic environment It explores the global strength environmental status chemical risk assessment and management strategies of CECs with relevant modern techniques The principle focus is on concurrent emerging water quality issues It defines the impacts of the environmental exposure of trace concentrations of CECs and or their metabolites and discusses possible technological advances to combat the emerging pollutants It will be useful to researchers multi stakeholder expert groups policymakers and graduate students

Ion Exchange Resins and Synthetic Adsorbents in Food Processing Emmanuel J Zaganiaris, 2011-10-13 The book reviews the use of ion exchange resins and synthetic adsorbents in food industries such as sugar sucrose monosaccharides glucose fructose tagatose polyols oligosaccharides such as inulin synthetic sweeteners such as sucralose fruit juices orange juice apple juice other fruit juices milk whey amino acids organic acids citric lactic malic acid gelatin glycerin nutraceuticals vitamins polyphenols and various other applications such as pectins and wine stabilization The focus is on ion exchange rather than on food processing it is therefore addressed to all those working in food processing industries or in parallel industries for whom ion exchange is not their primary field of experience

The Role of Halogens in Terrestrial and Extraterrestrial Geochemical Processes Daniel E. Harlov, Leonid Aranovich, 2018-01-30 The book summarizes the knowledge and experiences concerning the role of halogens during various geochemical processes such as diagenesis ore formation magma evolution metasomatism mineralization and metamorphism in the crust and mantle of the Earth It comprises the role of halogens in other terrestrial worlds like volatile rich asteroids Mars and the ice moons of Jupiter and Saturn Review chapters outline and expand upon the basis of our current understanding regarding how halogens contribute to the geochemical geophysical evolution and stability of terrestrial worlds overall

Microbial Oxidation of Hydroquinones and Humic Substances James Ian Van Trump, 2009

Microbial Metal and Metalloid Metabolism John F. Stolz, Ronald S. Oremland, 2011-08-02 The ideal reference for

novice and experienced investigators interested in environmental biogeochemistry and bioremediation Offers a broad range of current topics and approaches in microbe metal research including microbial fuel cells unique microbial physiology genomics proteomics and transcriptomics Reviews the current state of the science in the field and examines emerging developments and applications and forecasts future research directions The book is also recommended as a text for graduate courses in microbial physiology microbial ecology and applied and environmental microbiology Advanced Oxidation Technologies Marta I. Litter, Roberto J. Candal, J. Martin Meichtry, 2014-03-03 Advanced Oxidation Technologies AOTs or Processes AOPs are relatively new and innovative technologies to remove harmful and toxic pollutants The most important processes among them are those using light such as UVC H₂O₂ photo Fenton and heterogeneous photocatalysis with TiO₂ These technologies are also relatively low cost and therefore useful **Silver Strand Training Complex**, 2011 **Applied Spectroscopy**, 2009

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